

User's Guide



9351905

Issue 3

Nokia is a registered trademark of Nokia Corporation, Finland.

© 1999. Nokia Mobile Phones. All rights reserved.

Nokia Mobile Phones operates a policy of continuous development. Therefore, we reserve the right to make changes and improvements to any of the products described in this guide without prior notice.

Table of contents

For your safety	6	4. Phone Book	22
Quick start	8	Keying in a name	22
1. Your phone	10	Keying in a phone number.....	22
List of keys.....	10	Saving a phone number with a name (Add entry).....	23
The selection keys	11	Recalling a phone number and a name.....	23
The display indicators	11	By Phone Book's search function	23
2. Basic functions	13	By scrolling when the display is clear.....	24
Charging a new battery.....	13	Deleting a name and a phone number (Erase).....	24
Switching on/ off	13	Caller groups.....	25
Making a call.....	14	Including a phone number in a caller group.....	25
International calls.....	14	Setting a ringing tone and graphic for a caller group	25
Receiving a call.....	15	Speed dialling	26
Last number redial	16	Other Phone Book functions	27
Adjusting the earpiece volume....	17	Editing name and phone number stored in Phone Book.....	27
Accessing the Phone Book.....	17	Viewing the amount of free space (Memory status).....	28
Call waiting and conference call services.....	17	5. Menu functions	29
3. Other essential functions	18	Accessing the menu functions.....	29
Selecting a desired user profile	18	By scrolling.....	29
Voice messages.....	18	By shortcut.....	30
Listening to voice messages	18	Exiting from the menu functions	30
Text messages	19	List of menu functions	31
Read messages.....	19	Descriptions of the menu functions	34
Writing and sending a message	19		
Keypad lock.....	20		
To lock the keypad.....	20		
To unlock the keypad.....	20		
Adjusting phone tones: Profiles.....	21		

1 Messages (Menu 1)	34	Call waiting options (Menu 4 3 3)	51
Inbox (Menu 1 1)		Own number sending (Menu 4 3 4)	51
Reading a text message	34	Speech scrambling (Menu 4 3 5)	52
Outbox (Menu 1 2)		Phone settings (Menu 4 4)	52
Sending a message and Write messages (Menu 1 3)	36	Language (Menu 4 4 1)	52
Message settings (Menu 1 4)	37	Country (Menu 4 4 2)	53
Set specific settings	37	Changing country code (Menu 4 4 3)	53
Set_1 - Set_3 (Menu 1 4 1-1 4 3)	38	Service codes (Menu 4 4 4)	54
Retrieve messages (Menu 1 5)	40	Welcome note (Menu 4 4 5)	55
Voice messages (Menu 1 6)	40	Display contrast (Menu 4 4 6)	55
Listen to voice messages (Menu 1 6 1)	40	Security settings (Menu 4 5)	55
Voice mailbox number (Menu 1 6 2)	41	PIN code request (Menu 4 5 1)	55
2 Call register (Menu 2)	42	Change PIN code (Menu 4 5 2)	55
Missed calls (Menu 2 1)	43	Call barring (Menu 4 5 3)	56
Received calls (Menu 2 2)	43	Phone information (Menu 4 6)	57
Dialled numbers (Menu 2 3)	43	Own number (Menu 4 6 1)	57
Erase recent call lists (Menu 2 4)	44	Network ID (Menu 4 6 2)	57
Show call duration (Menu 2 5)	44	SIS reference (Menu 4 6 3)	57
3 Profiles (Menu 3)	45	Restore factory settings (Menu 4 7)	57
Accessing the profiles	45	5 Call divert (Menu 5)	58
Changing profile settings (such as incoming call alert)	45	Divert all voice calls without ringing (Menu 5 1)	58
4 Settings (Menu 4)	49	Divert when busy (Menu 5 2)	58
Alarm clock (Menu 4 1)	49	Divert when not answered or not reachable (Menu 5 3)	58
Clock (Menu 4 2)	50	Cancel all diverts (Menu 5 4)	59
Call settings (Menu 4 3)	50	6 Games (Menu 6)	60
Anykey answer (Menu 4 3 1)	51	7 Calculator (Menu 7)	63
Speed dialling (Menu 4 3 2)	51		

8 Calendar (Menu 8)	65
9 FM Radio (Menu 9)	68
Search (Menu 9 1/ Menu 9 2).....	68
Radio Off (Menu 9 1).....	69
Radio station names 1...5 (Menu 9 2...9 6)	69

6. Additional information.. 70

DTMF tones	70
Using the batteries	71
Charging and discharging the battery.....	71
Notes for using the batteries..	72
Access codes	73
Security code	73
PIN code	73
Care and maintenance.....	74
Important safety information	75
Traffic safety.....	75
Operating environment	75
Electronic devices	75
Potentially explosive atmospheres	77
Vehicles.....	77
Emergency calls.....	78

Index..... 79

For your safety



Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this manual.



ROAD SAFETY COMES FIRST

Don't use a hand-held phone while driving; park the vehicle first.



INTERFERENCE

All wireless phones may get interference which could affect performance.



SWITCH OFF IN HOSPITALS

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



SWITCH OFF IN AIRCRAFT

Wireless phones can cause interference. Using them on aircraft is illegal.



SWITCH OFF WHEN REFUELLING

Don't use phone at a refuelling point. Don't use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Don't use phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.



USE SENSIBLY

Use only in normal position (to ear). Don't touch the antenna unnecessarily.



USE QUALIFIED SERVICE

Only qualified service personnel must install or repair equipment.



ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.



MAKING CALLS

Ensure that the phone is switched on and in service. Enter the phone number, including the area code, then press . To end a call press . To answer a call press .



EMERGENCY CALLS

Ensure that the phone is switched on and in service. Make sure the phone is ready for a new call. (If you are in a menu/submenu, clear the display and return the phone to the standby mode.) Enter the emergency number, then press . Give your location. Do not end the call until told to do so.

Using this guide

The wireless phone described in this guide is approved for use in a NMT 450 network. A number of features included in this guide are called Network Services. They are special services provided by wireless service providers. Before you can take advantage of any of these Network Services, you must subscribe to these service(s) from your home service provider and obtain instructions for their use.

Warning!

Use only batteries, charger and accessories approved by the phone manufacturer for use with this particular phone model. The use of any other types will invalidate any approval or warranty applying to the phone, and may be dangerous.

For availability of approved accessories, please check with your dealer.

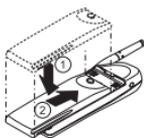
When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

- This apparatus is intended for use when supplied with power from ACP-7, ACP-9, LCH-9, HFU-2. Other usage will invalidate any approval given to this apparatus and may be dangerous.

Quick start

Before you can make a first phone call with your new Nokia 650 phone:

- 1 Attach the battery to your phone.



- 2 Charge the battery.



- **Note:** A new NiMH battery must be charged for at least 16 hours before you can use your phone.

- 3 To switch the phone on/ off, press $\text{\textcircled{1}}$.



- 4 To make a call:

- If your phone is within the network service area (if the $\text{\textcircled{O}}$ symbol appears on the display), you can make a call.
- To make a call, key in the desired phone number (including the area code).
- Press $\text{\textcircled{1}}$ to make a call.
- Press $\text{\textcircled{2}}$ to end a call.

- 5 To receive a call:

- Press $\text{\textcircled{1}}$ to answer a call.

6 To redial the last dialled number:

- Press  twice.

7 To correct keypresses or to clear the entire display:

- Press  **Clear**.

8 To adjust the earpiece volume:

- Use the keys  on the side of the phone.
- To lock the keypad:
- Press  **Menu** and .

9 To unlock the keypad:

- Press  **Unlock** and .

10 Listening to voice messages:

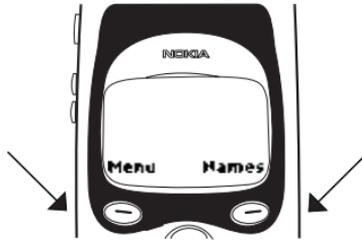
- Press and hold  to call your voice mailbox number.
- **Note:** Make sure you have saved your voice mailbox number in the phone's memory with Menu 1 6 2 before you can call your voice mailbox with the  key. **Note:** This function is operational only if the local network supports it. Check it with your service provider.

11 Reading and writing messages:

- Press  **Menu**, choose Messages,  **Select**.
- To read: choose Inbox with  **Select**, choose desired message,  **Read**.
- To write and send: choose Write messages with  **Select**, key in message, press  **Options**, choose  **Send**,  **OK**, key in the recipient's phone number or search for it from the Phone Book, press  **OK** to send the message.
- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

For more details about these and other functions, see the appropriate pages of this guide.

The selection keys



Below the display you will find two selection keys.

Their functions depend on the guiding texts shown above the keys.

For example, when the word **Menu** is shown above the  key, pressing this key enters the menu functions. Similarly, pressing the  key under the word **Names** allows access to the Phone Book functions.

The display indicators



FI Indicates the country where the phone is currently used.

 and bar (left side of display)

Signal strength indicator. The bar above the symbol indicates the current signal strength at the location of your phone. The higher the bar, the better the signal in the area.

No bar: You are outside the coverage area and cannot make or receive any calls.

 and bar (right side of display)

Charge level indicator. Indicates the charge level of the battery. The higher the bar, the better the battery charge.

The indicators above (and the time, if it is available from the local network or if the user has set the right time) are displayed when the phone is in the standby mode and ready for use.

Your phone also displays several other display indicators, which give you information about your phone's functions and mode. These indicators are explained together with the different functions throughout this User's Guide.

○ Service symbol. When this symbol appears on the display you are in the network service area and you may be able to make a call.

△ Roaming symbol. It indicates that you are not able to make a call as your phone is not connected to a network.

2. Basic functions

Charging a new battery

Before you can use your phone, you must fully charge the battery. A new battery must be charged for at least 16 hours before being used for the first time. Attach the battery to the phone and connect the charger to the bottom of the phone as described in the Quick start, page .

Switching on/ off

- **Warning!** Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.
- **Normal position:** Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.
- **Tips on efficient operation:** Extend the phone's antenna fully. As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.
 - Press ① to switch the phone on /off.
 - If the phone asks for a PIN code, key it in (appears as stars) and press Ⓞ **OK**. See also (Security settings, PIN code request, Menu 4 5 1)
 - **Note:** The PIN code protects your phone against unauthorised use. The default PIN code for your phone is 0000. Please change the PIN code with Menu 4 5 2, Security Settings, Change PIN code.
 - **Note:** Do not unscrew the antenna when the phone is switched on.

When turning the phone on, it will carry out a short self-test, briefly displaying a pre-programmed graphic or user-definable welcome text.

When the appropriate country code and the  indicator appear on the display, the phone is ready for use.

A cellular phone can only make and receive calls when it is switched on and the signal strength is adequate.

The phone displays current field strength as a series of bars on the left-hand side of its display screen - the more bars, the better the signal in your area.

If the signal is poor, you can try moving the phone slightly to improve reception. If you are using the phone in a building, you may find that the reception is better near a window.

Making a call

- **Note:** make sure that your phone's antenna is fully extended.

To make a call:

- 1 If your phone is within the network service area (if the  symbol appears on the display), you can make a call. Key in the number (include the area code, even if you are making a local call).
- 2 Press  to make a call.
- 3 The  indicator and the dialled number will appear on the display. The name of the person you are trying to call also appears on the display for 5 seconds, if it is stored in the phone's memory. When the number clears from the display and a tone is heard, the phone has transmitted the number.
- 4 Lift the phone to your ear, and wait until your call is answered, then speak.
- 5 When you have finished the call, press .

International calls

- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

When calling abroad a + character can be inserted in front of the country code instead of the international access code.

For example, if your international access code is 990, instead of dialling 990 44 81 123 456
+ 44 81 123 456 can be used.

1 Press the  key twice to insert a + character.

If you also store all of your domestic phone numbers with the prefix +, you need not insert the phone number with the international access codes when you wish to call these numbers from abroad.

Receiving a call

When there is an incoming call, you may hear the ringing tone and the text **Call** appears on the display. It is possible to switch off the phone's ringing tones or to select a beep as an Incoming Call Alert, as it is possible to determine different Incoming Call Alert types for different situations. You can, for example, switch the ringing tone off - select the Silent option in certain profiles for privacy or other reasons. Then only the lights will flash instead of a sound alert. (see Profiles, Ringing volume, Menu 3 1 2 3).

An easy way to select different profiles is to press  briefly and scroll through the list of profiles with the  and  keys and select a suitable profile with  **OK**.

If the caller can be identified (if the user and the network allow the caller's number to be identified), the caller's phone number (or the name, if it is stored in the memory) appears on the display together with the text **Calling**.

- **Note:** This function, which enables the caller to be identified, is operational only if the local network supports it. Check the availability of the function with your service provider.

If the call is diverted from another number, the **>** indicator appears on the right-hand side of the third display row. If the caller cannot be identified and the call is diverted, the message **Diverted Call** appears on the display.

- **Note:** The Call Divert function is operational only if the local network supports it. Check it with your service provider.

- 1 Press  to answer a call.
- 2 When you have finished the call, press .

If you don't answer the call, the message 1 Missed Call appears on the display. Press  **List** to check the number or a name of the missed call, which appears on the display, if the network supports caller identification. Press and hold  **Clear** to clear the display.

Last number redial

The phone automatically stores the last 10 numbers (and associated names) that you have called or tried to call.

To call the last called number:

- 1 Press and hold  to clear the display.
- 2 Press  twice to call the last called number.

To scroll through the 10 numbers last called:

- 1 Press and hold  to clear the display.
 - 2 Press  to see the last number called or the name if it is stored with the number.
 - 3 With the  and  keys you can scroll through the last numbers called and
 - 4 with  you can call the number which appears on the display.
- **Note:** In Menu 2 4 you can select (*Erase recent call lists*) for the last numbers called to be cleared from the memory.

Adjusting the earpiece volume

The volume of the earpiece can be adjusted during a call with the volume control keys  on the side of the phone.



Accessing the Phone Book

You can access the stored names and phone numbers as well as the Phone Book functions in the following ways:

- When the display is clear: Press  **Names**.
- During a call: Press  **Options**, scroll with  or  to **Names**, and press  **Select**.

To exit from Phone Book while at its main level, press  **Exit**.

To quit a Phone Book function, press  **Back**.

To exit from Phone Book any time (except during a call), press .

Call waiting and conference call services

The call waiting service allows you to make or answer a second call while you already have a call in progress. You can accept a second call or make a new call during a call with the  and number keys. As the instructions for this vary from country to country, for more information about this, please, contact your service provider or network operator.

The conference call service allows you to have a conversation with several callers at the same time.

3. Other essential functions

Selecting a desired user profile

It is possible to define different setting groups, so-called user profiles for different usage situations. For more information on how to define user profiles, see Profiles, Menu 3.

To select a different user profile:

- 1 Press  briefly to enter the power-key menu.
- 2 Scroll through different user profiles with  or .
- 3 Press  **OK** to select a desired user profile or  **Exit** if you wish to exit the power-key menu without changing the user profile.

Voice messages

- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

Listening to voice messages

- 1 Press and hold  to call your voice mailbox number.
 - **Note:** Make sure you have saved your voice mailbox number in the phone's memory with Menu 1 6 2 before you can call your voice mailbox with the  key.

Text messages

- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

Read messages

- 1 Press **Menu** to enter the Messages menu.
- 2 Press **Select** to enter the Inbox submenu.
- 3 Press **Select** again to view the Inbox submenu.
- 4 Use the **Up** and **Down** keys to scroll through messages you have received. Use **Read** to open a message.
- 5 With **Options** you can enter a list of options (Erase, Reply, Edit, Use number, Forward, Details).
- 6 With **Up** and **Down** keys you can scroll through those options.
- 7 Press **OK** to select an option.
- 8 Press **Back** to go to the previous menu level.
 - **Note:** The Edit option may not be available if the message received was written using a keymap that does not exist in your phone. (The keymaps vary according to the languages available in your phone.)

Writing and sending a message

- 1 Press **Menu** to enter the Messages menu.
- 2 Press **Select** to enter the Write Messages submenu.
- 3 After you have written the message, press **Options**.
- 4 Press **Send**, **OK** if you wish to send the message.
- 5 Or press **Clear** to erase the message letter by letter. If you press and hold **Clear** you can clear the whole display.
- 6 Key in the recipient's phone number or search for it from the Phone Book, press **OK** to send the message.

- 7 The message *Message sent or Message sending failed* appears on the display.
- 8 Press  **Back** to go to the previous menu level or press  **Exit** to leave the Messages menu.

Keypad lock

The phone's keypad can be locked to prevent accidental keypresses, e.g. when the phone is in your pocket.

- **Note:** When the keypad is locked, calls may be possible to the emergency number pre-programmed into your phone (e.g. 112 or some other official emergency number).

To lock the keypad

- 1 Press  **Menu** and .

The *Keypad locked* message appears on the display.  appears at the top of the display. When any key is pressed the *Press Unlock and then ** message is shown.

To answer a call when the keypad is locked, press . During a call, the keypad is not locked, and you can operate the phone as usual.

To unlock the keypad

- 1 Press  **Unlock** and .

When the keypad is unlocked, the *Keypad Active* message appears, and the phone operates in the usual way.

Adjusting phone tones: Profiles

- 1 Press **Menu**, choose Profiles.
- 2 Press **Select**, choose the desired profile with **Up** and **Down** keys.
- 3 Press **Options**, choose Personalise, press **OK**.
- 4 If you wish to change the Incoming call alert: Choose Incoming call alert, press **Select**, choose the desired alert type and press **OK**.
- 5 If you wish to change the Ringing tone or volume: Choose Ringing tone or Ringing volume, press **Select**, choose the desired setting, and press **OK**.

4. Phone Book

Keying in a name

When you are asked for a name in Phone Book's "Add entry" function or in any other function:

- 1 Key in the name. Proceed as follows:
 - Press the key labelled with the character you want: once for the first character, twice for the second and so on.
 - To switch between upper case and lower case, press  quickly. **ABC** or **abc** at the top of the display indicates the selected case.
 - To insert a number, press and hold the key labelled with the desired number. To insert a space, press .
 - Pressing  brings up a list of special characters. Reach the desired character with  or  and press  **Use** to insert it in the name.

If the character list continues on the next screen, you can scroll between the screens with .

- 2 If you make a mistake, you can remove characters to the left by pressing  **Clear** as many times as needed. Pressing and holding  **Clear** clears the screen.
 and  move the cursor left and right, respectively.
- **Note:** Different character sets are available in different languages.

Keying in a phone number

When you are asked for a phone number in Phone Book's "Add entry" function or in any other function:

- 1 Key in the digits of the phone number.
- 2 If you make a mistake, you can remove digits to the left by pressing  **Clear** as many times as needed or press and hold  **Clear** to clear the whole display.
 and  move the cursor left and right, respectively.

Saving a phone number with a name (Add entry)

You can save phone numbers with associated names in the Phone Book.

- 1 With the display clear, press  **Names**.
- 2 Scroll with  or  to **Add entry** and press  **Select**.
- 3 Key in a name and press  **OK**.
- 4 Key in an area code and phone number, and press  **OK**.
 - If you want to use the phone number when abroad, add a + character (press  twice) and the country code in front of the area code and phone number.

TIP: Quick saving

- 1 With the display clear, key in the desired phone number and press  **Save**.
- 2 Key in the associated name and press  **OK**.

Recalling a phone number and a name

There are several ways to access the names and phone numbers stored in Phone Book.

By Phone Book's search function

- 1 With the display clear, press  **Names**.
- 2 With **Search** highlighted, press  **Select**.
- 3 Key in the first character(s) of the desired name.
- 4 Press  **OK** or  for the first name, or  for the last name beginning with the given character(s).
- 5 Press  or  until the desired name appears or is highlighted.
 - Three periods (...) after the name or before the phone number mean that the name or number is not shown in full length.

- 6 Press **Detail** and then **Left** or **Right** to see the name in full length and the phone number associated with the name.

By scrolling when the display is clear

- 1 Press **Left** or **Right**.
- 2 Key in the first character of the name.
- 3 Press **Left** or **Right** until the name appears.
- 4 Press **Detail** and then **Left** or **Right** to see the name in full length and the phone number associated with the name.

Deleting a name and a phone number (Erase)

You can remove names and phone numbers from the Phone Book one by one or all at once.

One by one

- 1 Recall the name and phone number that you want to remove.
- 2 Once you are in the Details of the given name or phone number:
 - Press **Options**.
 - Scroll with **Left** or **Right** to **Erase** and press **Select**.
 - Press **OK** to confirm or **Back** to cancel the operation.

Alternatively: With the display clear, press **Names**. Scroll to **Erase** and press **Select**. Scroll to **One by one** and press **Select**. Recall the desired name and/or phone number from Phone Book and press **Erase**. Press **OK** to confirm.

All at once

- 1 With the display clear, press **Names**.
- 2 Scroll with **Left** or **Right** to **Erase** and press **Select**.
- 3 Scroll to **Erase all** and press **Select**.
- 4 Scroll to the Phone Book to be cleared and press **Select**.

- At the prompt *Are you sure?*, press **OK** to clear the selected Phone Book or **Back** to cancel the operation. If you pressed **OK**, key in the security code and press **OK**.

Caller groups

You can set the phone to sound a specific ringing tone and flash the desired graphic on the display when you receive a call from a particular phone number.

For this, first include a phone number in the desired caller group. Then, define a ringing tone and graphic for this group.

- Note:** You can set the phone to ring only upon calls from phone numbers that belong to a specific caller group. See Menu 3, Profiles, Changing profile settings, Incoming call alert for details.

Including a phone number in a caller group

- Recall the desired name and phone number.
- Once you are in the Details of the given name or phone number: Press **Options**, scroll with **Up** or **Down** to **Caller groups**, and press **Select**.
- Scroll to the desired caller group and press **Select**.

Setting a ringing tone and graphic for a caller group

- With the display clear, press **Names**.
- Scroll with **Up** or **Down** to **Caller groups** and press **Select**.
- Scroll to one of the caller groups and press **Select**.

- 4 Scroll to one of the following functions and press  **Select**.

Rename group

Key in the name and press  **OK**.

Group ringing tone

Scroll to the desired tone and press  **OK**. Preset is the tone selected for the currently selected profile.

Group graphic:

Scroll to On, Off, View graphic, Send graphic (send via SMS), and press  **Select**.

- 5 If you selected Send graphic (network service), key in the recipient's phone number or recall it from Phone book and press  **OK**.

Speed dialling

You can set any of the number keys  to  to function as a speed dialling key.

For this, you need to assign a phone number to the desired number key.

Specifying a speed dialling key

- 1 With the display clear, press  **Names**.
- 2 Scroll with  or  to Speed dials and press  **Select**.
- 3 Scroll through the current speed dialling assignments.

If a phone number is assigned to a key, the phone number (or name) and  **Options** are shown.

- If no phone number is assigned to a key, Assign is shown.
Note: Assign is also shown when the phone has automatically assigned a phone number to a speed dialling key.

4 Do one of the following:

- To assign a phone number to an empty speed dialling key or change an assignment made by the phone: Press  **Assign**, scroll to the desired name or phone number, and press  **OK**.
- To check or edit an existing speed dialling assignment: Press  **Options**, scroll to one of the following functions and press  **Select**.

View number

Shows the phone number associated with the name.

Change

Allows you to change the assigned name and phone number.

Scroll to the desired name or phone number and press  **OK**.

Erase

Removes the speed dialling assignment that you have made.

Press  **OK** to confirm or  **Back** to cancel the operation.

Using the speed dialling keys

You can use the speed dialling keys in the following way:

With the display clear, press the desired speed dialling key ( to ) and then .

Other Phone Book functions

Editing name and phone number stored in Phone Book

- 1 Recall the name or phone number that you want to edit
- 2 Once you are in the Details of the given name or phone number: Press  or  for the phone number or name, press  **Options**, scroll to **Edit** and press  **Select**.
- 3 Edit the phone number (or name) and press  **OK**.
- 4 If you edited the name, scroll to **Replace** (replaces original name) or **Create** entry and press  **Select**.

Viewing the amount of free space (Memory status)

You can check how many names and phone numbers are stored and can still be stored in the Phone Book.

- 1 With the display clear, press  **Names**.
- 2 Scroll with  or  to **Options** and press  **Select**.
- 3 Scroll to **Memory status** and press  **Select**.
- 4 Press  or  for the following information on the Phone Book:
 - **in use**: number of currently stored names and phone numbers
 - **free**: number of names and phone numbers that still can be stored

5. Menu functions

The menu functions described in the following pages allow you to tailor the phone's functions to make them more suitable for your own use. With the menus and submenus you can check and change your phone's settings.

Most of the menu functions are provided with a brief help text.

To view the help text, scroll to the desired menu function and wait for 10 seconds.

Once the text appears, press  **More** (or  or ) if you want to scroll the text manually. Pressing  **Back** exits from the text.

Accessing the menu functions

To access a given menu function scroll through the menus with the keys until you reach the desired menu or enter the menu with its shortcut number.

By scrolling

- 1 To enter the menu facility, press  **Menu** in the standby mode.
- 2 At the main menu level, press  or  to reach the desired menu, such as **Settings**, and press  **Select** to enter it.
The menu number and sliding bar on the right side of the display shows the menu's position in respect to other menus at the same menu level.
- 3 If the menu contains submenus (such as **Phone settings**), reach the one you want with  or  and press  **Select**.
If the submenu contains a further set of submenus, repeat this step.

By shortcut

Each menu, submenu and setting option is provided with a shortcut number. To enter any of the menus or submenus by its shortcut:

- 1 Press  **Menu** in the standby mode.
- 2 Key in the menu shortcut number.

For example, to enter menu 3 2, press  **Menu** and then the number keys 3 and 2.

Exiting from the menu functions

To exit from the menu facility while at the main menu level, press  **Exit**.

To return from a submenu to the previous menu level, press  **Back**.

To exit from the menu facility while in any menu or submenu, press  or press and hold  **Back**.

List of menu functions

1 Messages (Menu 1)



- 1 Inbox
- 2 Outbox
- 3 Write messages
- 4 Message settings
 - 1 Set_1 (set specific settings)
 - 2 Set_2 (set specific settings)
 - 3 Set_3 (set specific settings)
 - 1 Message centre number
 - 2 Messages sent as
 - 3 Message validity
 - 4 Message encoding
 - 5 Rename this set
- 5 Retrieve messages
 - 1 Set_1
 - 2 Set_2
 - 3 Set_3
- 6 Voice messages
 - 1 Listen to voice messages
 - 2 Voice mailbox number

2 Call register (Menu 2)



- 1 Missed calls
- 2 Received calls
- 3 Dialed numbers

- 4 Erase recent call lists
- 5 Show call duration
 - 1 Last call duration
 - 2 All calls' duration
 - 3 Received calls' duration
 - 4 Dialed calls' duration
 - 5 Clear timers

3 Profiles (Menu 3)



- 1 General
 - 1 Activate
 - 2 Personalise
 - 1 Incoming call alert
 - 2 Ringing tone
 - 3 Ringing volume
 - 4 Vibrating alert ¹
 - 5 Message alert tone
 - 6 Keypad tones
 - 7 Warning and game tones
 - 8 Lights ²
 - 9 Automatic answer ³
- 3 Rename ⁴

1 This profile setting is available only when the phone is used with a special battery BMS-2V.

2 This profile setting is available only in the Car profile when the phone is used with the car kit CARK-91.

3 This profile setting is available only in the Car or Headset profiles when the phone is used with the car kit CARK-91 or headset HDC-9.

4 This profile setting is not available in General, Car or Headset profiles.

- 2 Silent
- 3 Meeting
- 4 Outdoor
- 5 Pager
- 6 Car ¹
- 7 Headset ²

4 Settings (Menu 4)



- 1 Alarm clock
- 2 Clock
 - 1 Show/Hide clock
 - 2 Set the time³
 - 3 Update options
 - 1 Clock updated by phone
 - 2 Clock updated by network
 - 4 Time format
 - 1 24-hour
 - 2 12-hour
- 3 Call settings
 - 1 Anykey answer
 - 2 Speed dialling
 - 3 Call waiting options
 - 4 Own number sending
 - 1 Preset
 - 2 Own setting
 - 5 Speech scrambling

1 This profile is shown only if the phone is or has been used with the car kit CARK-91.

2 This profile is shown only if the phone is or has been used with the headset HDC-9.

3 This menu option is not available if you have selected the clock to be updated by network (Menu 4 2 3 2)

- 4 Phone settings
 - 1 Language
 - 2 Country
 - 3 Changing country code
 - 1 Semi-autom.
 - 2 Manual
 - 4 Service codes
 - 1 Call divert codes
 - 2 Own number sending code
 - 3 Call waiting code
 - 5 Welcome note
 - 6 Display contrast
- 5 Security settings
 - 1 PIN code request
 - 2 Change PIN code
 - 3 Call barring
 - 1 Barring on/off
 - 2 Settings
 - 3 Selected sets
- 6 Phone information
 - 1 Own number
 - 2 Network ID
 - 3 SIS Reference
- 7 Restore factory settings

5 Call divert (Menu 5)



- 1 Divert all voice calls without ringing
- 2 Divert when busy
- 3 Divert when not answered or not reachable
- 4 Cancel all divers

6 Games (Menu 6)



- 1 Memory
 - 1 Level
 - 2 Continue
 - 3 Last view
 - 4 New game
 - 5 Top score
 - 6 Instructions
- 2 Snake (submenus as above)
- 3 Logic
 - 1 Level
 - 2 Continue
 - 3 Last view
 - 4 New game
 - 5 Instructions
- 4 React (submenus as in Memory and Snake)

7 Calculator (Menu 7)



- 1 Equals
- 2 Add
- 3 Subtract
- 4 Multiply
- 5 Divide
- 6 To domestic
- 7 To foreign
- 8 Exchange rate

8 Calendar (Menu 8)



- 1 View day
- 2 Make note
- 3 Erase notes
- 4 View all
- 5 Go to date
- 6 Set the date

9 FM Radio (Menu 9)¹



- 1 Search (if radio is turned on for the first time)² or
- 1 Radio Off (radio on and radio station names saved in the memory)
- 2 Search
- 3 88.8 MHz (max. of 5 radio station frequencies and/or names appear if saved in the phone's memory)

¹ FM Radio operates only with the headset HDC-9.

Descriptions of the menu functions

1 Messages (Menu 1)



- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

This menu enables you to use your phone's text (SMS) messages and voice messages functions.

To enter this menu:

With the display clear, press  **Menu** (Messages appears) and then  **select**.

Text messages

The SMS network service allows you to send short text messages to phones provided with SMS capability.

Message indicators

When  is displayed continuously, you have received a text message. When  flashes there is no more space for new messages. Use the "Erase" function in the "Inbox" or "Outbox" submenu to make some space.

Voice messages

The voice message service allows you to have an own voice mailbox held by your service provider.

2 Submenu structure in Menu 9 varies depending on whether the radio is turned on (for the first time) and whether radio station information has been saved in the memory.

Inbox (Menu 1 1) Reading a text message

When you receive a text message,  and the number of new messages followed by message(s) received will appear and a message alert tone will be heard. Received messages can be viewed in the "Inbox" submenu.

When a note of a new message appears on the display:

Press  **Read** to read the message immediately or  **Exit** to view it later.

Or you can view the message later:

In the Messages menu, scroll with  or  to Inbox, and press  **Select**.

Use  or  to browse through the message and related information, such as sender's phone number and reception date and time.

While reading the message, you can access the following functions by pressing  **Options**. Scroll to the desired function and press  **OK**.

Erase

Deletes the message. Press  **OK** to confirm the operation.

Reply

Allows you to send a reply to the sender of the message. Key in your message, press  **Options**, scroll to the desired function, and press  **OK**. You can select from the same options as in "Write messages" (Menu 1 3).

Edit

Allows you to change the message. Edit the message, press  **Options**, scroll to the desired function, and press  **OK**. You can select from the same options as in "Write messages" (Menu 1-3).

- **Note:** The Edit option may not be available if the message received was written using a keymap that does not exist in your phone. (The keymaps vary according to the languages available in your phone.)

Use number

Extracts a phone number from the message for calling or saving. If there are several numbers, scroll to the desired one and press  **OK**. Press  **Save** to save the number in Phone Book or  to call it.

Forward

Allows you to send the message further. When you have read the message and wish to forward it, select **Forward** option with  **OK**, scroll with  or  through a list of send options. You can select from the same options as in "Write messages" (Menu 1-3). If you decide to send the message, enter the phone number or search it from the Phone Book with  **Search**. Press  **OK** to send the message.

Details

Shows details of the message. Use  or  for some or all of the following: sender's name (if it is available) and phone number and time stamp (i.e. date and time when the message was sent.)

Outbox (Menu 1 2) Sending a message and Write messages (Menu 1 3)

You can write and send text messages within the "Write messages" submenu.

You can save your own messages in the "Outbox" submenu (Menu 1-2) for later use.

- **Note:** When you save messages in the Outbox, the space for messages in the Inbox decreases. Send or erase messages for more space when necessary.

To write and send a text message:

- 1 In the **Messages** menu, scroll with  or  to **Write messages** and press  **Select**.
- 2 Key in a message of up to 160 characters. The number of remaining characters is shown at the top of the display.

- 3 When you have finished writing, press  **Options** for the following functions. Scroll to the desired function and press  **OK**.

Send

Sends the message. Key in the recipient's phone number or recall it from Phone Book and press  **OK**. Press  **OK** to send the message.

Send by set

Allows to send the message by using a selected set. Scroll to the desired set and press  **Select**.

Select **Numeric** (for phone number) or **Alphanumeric** (for e-mail address, for example) and press  **OK**. Key in the desired phone number or alphanumeric address (if supported by your service provider) and press  **OK**.

Save

The message is saved in the Outbox.

Clear screen

Removes from the display all the characters that you have keyed in.

To view the messages you have saved:

In the Messages menu, scroll to **Outbox** and press  **Select**. Scroll to the desired message.

Pressing  **Read** shows the message.

Pressing  **Options** while reading allows access to the same functions as in Inbox (Menu 1-1), except for Reply.

Message settings (Menu 1 4)

There are two kinds of message settings: those specific to each setting group ('set') and those common to all text messages.

To enter these settings:

- In the Messages menu, scroll with  or  to **Message settings** and press  **Select**.

Set specific settings

A setting group or a 'set' is a collection of settings needed for sending text messages.

You can, for example, send a text message as a fax or an e-mail, if supported by your service provider, by simply selecting the set in which you have predefined the proper settings for fax transmissions.

Set_1 - Set_3 (Menu 1 4 1-1 4 3)

Within these submenus you can change the settings of a particular set.

To access these settings:

- 1 In the **Message settings** submenu, scroll with  or  to the desired set and press  **Select**.
 - **Note:** The set can have any name that you can change with the "Rename this set" function.
- 2 Scroll to one of the following settings and press  **Select** to enter it.

Message centre number (Menu 1 4 1 1)

Stores the phone number of the message centre needed for sending text messages. You obtain this number from your service provider. Key in or edit the phone number (or recall it from Phone Book) and press  **OK**.

- **Note:** the home service center saved with this submenu is the default service center number and it is automatically used for sending messages unless you use a different set of message settings.

Messages sent as (Menu 1 4 1 2)

You can request the network to convert you text messages into e-mail, fax or paging format (if the local NMT 450 network supports that format).

Scroll with  and  to the desired format and press  **OK**.

In order to receive a converted message, the recipient must have an appropriate terminal device available.

Message validity (Menu 1 4 1 3)

This network service allows you to set the length of time that your text messages are stored at the message centre while attempts are made to deliver them.

Scroll with  or  to the desired time and press  **OK**.

Message encoding (Menu 1 4 1 4)

This menu function allows you to set the messages encoding On or Off and to change the key used for encoding. You can either use the encoding key provided with your phone or use the phone's default encoding key.

- 1 Use the  and  keys to select the encoding On or Off.
 - 2 If you select encoding to be On, the submenus Default key, New key (and Current key, if the key has been entered earlier) appear on the display. Use the  and  keys to select the desired option.
 - 3 You can either accept the use of the default key or current key with  **OK** or key in a new key and then press  **OK** to accept it. Code error message appears on the display if you entered an incorrect code. (The code can be maximum of 10 digits and it cannot be all zeros.)
- **Note:** Network support of message encoding may vary, which cannot guarantee message encoding in all conditions, even when this feature is enabled.
 - **Note:** Local laws may apply to encoding messages. Do not use this feature illegally.

Rename this set (Menu 1 4 1 5)

Allows you to rename the set.

Key in the new name (of up to 10 characters) and press  **OK**.

Retrieve messages (Menu 1 5)

This menu function is needed only when you are in a country where the local network operator does not support the SMS function. It allows you to retrieve your SMS messages from your own operator's service centre or some other service center by placing a call to the particular service center. You can save different settings, according to the service center numbers in different sets.

When you wish to retrieve messages, your phone suggests a list of saved sets. You can scroll the list with the  and  keys and select a suitable set with  **OK**.

After successful retrieval of a message, the  indicator appears on the display.

If the message `Retrieval failed` appears on the display, you can try to retrieve messages later.

If there are no messages in the SMS service centre, the `No Messages` text appears on the display.

Voice messages (Menu 1 6)

To enter this submenu:

In the `Messages` menu, scroll with  or  to `Voice messages` and press  **Select**.

Listen to voice messages (Menu 1 6 1)

When you enter this submenu, the phone calls your voice mailbox at the phone number stored within Menu 1 6 2.

- In the `Voice messages` submenu, scroll with  or  to `Listen to voice messages` and press  **Select**.

 **TIP:** Alternatively, press and hold  when the display is clear.

Voice mailbox number (Menu 1 6 2)

Within this submenu you can save the phone number of your voice mailbox. You obtain this number from your service provider.

- 1 In the **Voice messages** submenu, scroll with  or  to **Voice mailbox number** and press  **Select**.
- 2 Key in the phone number or recall it from Phone Book (or edit the existing number) and press  **OK**.

2 Call register (Menu 2)



To enter this menu:

Press **Menu**, scroll with \ominus or $\omin�$ to Call register, and press $\omin�$ **Select**.

Options within submenus 2 1 - 2 3

In these submenus, you can access the following functions by pressing $\omin�$ **Options**. Scroll to the desired function and press $\omin�$ **Select**.

Time of call

Shows the date and time when the call was registered by the phone. If the same number was registered several times, you can see each call time using $\omin�$ or $\omin�$.

Edit number

Allows you to first edit the displayed name or phone number and then save it in Phone Book. Edit the number and press $\omin�$ **Save**. Edit the name and press $\omin�$ **OK**.

Save

Saves the displayed phone number in Phone Book. Key in the associated name and press $\omin�$ **OK**.

Erase

Deletes the displayed phone number from the list. Press $\omin�$ **OK** to confirm or $\omin�$ **Back** to cancel the operation.

View number

Shows the phone number associated with the displayed name.

 **TIP:** You can dial a listed phone number by pressing $\omin�$ with the desired name or number on the display.

Missed calls (Menu 2 1)

You can view the phone numbers for the last ten people who tried unsuccessfully to call you.

- 1 In the Call register menu, scroll with  or  to Missed calls and press  **Select**.
- 2 Scroll with  or  through the list.

Alternatively: When a note of missed calls is displayed, press  **List**.

- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

Received calls (Menu 2 2)

You can view the ten phone numbers from which you have most recently accepted calls (network service).

- 1 In the Call register menu, scroll with  or  to Received calls and press  **Select**.
- 2 Scroll with  or  through the list.

- **Note:** The phone only registers missed and received calls when it is switched on and is used within the network's service area. Only those numbers that can be identified are registered i.e. if the user and the network allow the number to be sent.
- **Note:** This function is operational only if the local network supports it. Check it with your service provider.

Dialled numbers (Menu 2 3)

You can view the ten phone numbers that you have most recently dialled, i.e. called or tried to call.

- 1 In the Call register menu, scroll with  or  to Dialled numbers and press  **Select**.
- 2 Scroll with  or  through the list.

Alternatively: With the display clear, first press  and then scroll with  or .

Erase recent call lists (Menu 2 4)

You can delete all phone numbers appearing in Menus 2-1, 2-2 and 2-3.

- 1 In the Call register menu, scroll with  or  to Erase recent call lists and press  **Select**.
- 2 Scroll to All, Missed, Dialed, or Received.
- 3 Press  **OK** to delete the phone numbers or  **Back** to cancel the operation.

Show call duration (Menu 2 5)

You can view the duration of your calls and clear the timers.

- 1 In the Call register menu, scroll with  or  to Show call duration and press  **Select**.
- 2 Scroll to one of the following functions:
 - Last call duration (Menu 2 5 1)
Shows the duration of the last (or current) outgoing or incoming call in hours, minutes and seconds.
 - All calls' duration (Menu 2 5 2)
Shows the total duration of calls made and received.
 - Received calls (Menu 2 5 3)
Shows the total duration of calls received.
 - Dialed calls (Menu 2 5 4)
Shows the total duration of calls made.
 - Clear timers (Menu 2 5 5)
Resets all timers. Press  **OK**, key in the security code, and press  **OK**.
- **Note:** The actual time invoiced for calls by your service provider may vary, depending on network features, rounding-off for billing, and so forth.

3 Profiles (Menu 3)



Within this menu you can set the phone tones and lights to function in the desired manner in different operating environments.

All you need to do is select the desired user environment (profile).

The phone comes with a pre-programmed set of profiles. You can rename the profiles and change the corresponding settings to suit your requirements.

When the phone is in the standby mode, the name of the currently selected profile is shown (except when "General" is selected).

Accessing the profiles

You can set the desired profile on either within this menu or, when the display is clear, as follows:

- 1 Press **Ⓜ** **quickly**.
- 2 Scroll with **⏪** or **⏩** to the desired profile (e.g. Meeting). Or: Press **Ⓜ** **quickly** as many times as necessary.
Switch off! turns off the phone.
- 3 Press **⏪** **OK** (or press and hold **Ⓜ**) to select the profile.

Changing profile settings (such as incoming call alert)

- 1 Press **⏪** **Menu**, scroll with **⏪** or **⏩** to Profiles, and press **⏪** **Select**.
- 2 Scroll to the desired profile with **⏪** or **⏩**.
General is the default setting.
- 3 Press **⏪** **Options** for the following functions. Scroll to the desired function and press **⏪** **OK**.

Activate

Sets the selected profile on. This option is not available with Headset or Car profiles as they are automatically activated when the phone is connected to headset HDC-9 or to car kit CARK-91.

Personalise

Allows you to change the following settings of the selected profile. Scroll to the desired setting and press **⊖ Select**.

Incoming call alert

Defines how the phone notifies you of an incoming voice call. Scroll with **⊖** or **⊕** to one of the following options and press **⊖ OK**:

Ring

The phone alerts by ringing.

Ascending

The phone starts ringing at a low volume and then gradually raises the volume to the selected volume level.

Ring once

The phone rings once.

Beep once

The phone beeps once.

Caller groups

With this submenu you can select certain caller group, so that your phone will alert only upon calls from phone numbers belonging to those caller groups. Scroll with **⊖** or **⊕** through the list of caller groups and use **⊖ Mark** to mark or **⊖ Unmark** to unmark the desired caller groups. Press **⊖ Back** to exit the submenu. To save the changes you made to caller groups, press **⊖ Yes**. To ignore the changes, press **⊖ No**.

Off

The phone does not ring when a call comes in.

Ringling tone

Sets the phone's ringing tone. Scroll with  or  to the desired tone (a sample is sounded) and press  **OK**.

Ringling volume

Sets the phone's ringing volume. Scroll with  or  to the desired level (a sample is sounded) and press  **OK**. Your phone has five different ringing volume levels available.

Vibrating alert

Sets the phone (when provided with a special battery) to vibrate when a voice call comes in. The vibrator does not work when the phone is connected to a charger. Scroll with  or  to On or Off and press  **OK**.

Message alert tone

Sets the ringing tone for text messages. Scroll with  or  to the desired tone (a sample of the sound is heard) and press  **OK**.

Keypad tones

Sets the volume level for keypad tones. Scroll with  or  to the desired level (a sample of the sound is heard) and press  **OK**. Your phone has four different ringing tone levels available.

Warning and game tones

Sets the phone to sound tones, e.g. when the battery is running out of power or when you play one of the games in the phone. This setting has no effect on the tones related to network services.

Scroll with  or  to On or Off and press  **OK**.

Lights

The display and keypad lights can be set to be On or Automatic (the lights will be automatically turned off 15 seconds after the last key press or incoming call alert). Scroll with  or  to select either On or Automatic option and accept the desired option with  **OK**.

- **Note:** the Lights option is available only with Car profile.

Automatic answer

When this function is set on and your phone is connected to headset or car-kit installation, an incoming call will be automatically answered after a short alarm. Scroll with  or  to On or Off and press  **OK**.

Rename

Allows you to edit the name of the selected profile. Key in the new name and press  **OK**.

- **Note:** When you edit and rename the Profile name, make sure it is done by using the same language and character set as when it was first written and saved. **Note:** Rename function is not available in the General, Headset and Car profiles.

Silent

Same Personalise options as referred to above.

Meeting

Same Personalise options as referred to above.

Outdoor

Same Personalise options as referred to above.

Pager

Same Personalise options as referred to above.

Car

Same Personalise options as above. With this submenu you can also set the display and keypad lights to be On or Automatic.

Headset

Same Personalise options as referred to above.

4 Settings (Menu 4)



With this menu function you can adapt the phone's settings to make them more suitable for your own use.

Alarm clock (Menu 4 1)

The phone can be set to alarm at a specified time. For setting the time format, see Clock (Menu 4 2).

- 1 In the **Settings** submenu, scroll with \ominus or $\omin�$ to **Alarm clock** and press $\omin�$ **Select**.
- 2 If the alarm was off, the phone asks for the desired alarm time. Key in the time in hours and minutes and press $\omin�$ **OK**.
If the alarm was on, scroll to **On** or **Off** and press $\omin�$ **OK**:
Selecting **On** allows you to change the alarm time. Selecting **Off** turns off the alarm function.

When the alarm time expires

The phone sounds an alert tone (unless Incoming call alert is set to "Off" or "Beep once"), shows **Alarm!** and flashes its lights. If you press $\omin�$ **Stop** or switch off the phone, the alarm function is turned off.

If you press any other key or let the phone alarm for one minute, the phone stops alarming for five minutes and resumes thereafter. You can end this 'snoozing' by pressing $\omin�$ **Stop** or switching off the phone.

- **Note:** If the alarm time expires while the phone is switched off, the phone starts alarming. If you press $\omin�$ **Stop**, the phone asks whether you want to activate the phone for calls. Press $\omin�$ **Yes** to switch on the phone or $\omin�$ **No** to keep the phone switched off. Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

Clock (Menu 4 2)

The phone is provided with a clock. The current time is always shown, except when you are in the Phone Book or menu functions or if you have selected to hide the clock with Menu 4 2 1.

The clock also serves the following functions: Messages (Menu 1), Call register (Menu 2), Alarm clock (Menu 4 1), and Calendar (Menu 8).

- 1 In the **Settings** submenu, scroll with  or  to **Clock** and press  **Select**.
- 2 Scroll to one of the following functions and press  **OK**.

Show/Hide clock

Allows you to set the time display on or off.

Set the time

Key in the time and press  **OK**.

Update options

Clock updated by phone

If this option is selected, the time is updated using the phone's internal clock only.

Clock updated by network

If this option is selected, the time is updated from the network, if the correct time is available from the local NMT 450 network your phone uses.

Time format: Allows you to select the 12-hour or 24-hour time format. Scroll to either format and press  **OK**.

- **Note:** If the battery is removed from the phone for a long time, you may need to set the time again.

Call settings (Menu 4 3)

To enter this submenu:

- In the **Settings** menu, scroll with  or  to **Call settings** and press  **Select**.

Anykey answer (Menu 4 3 1)

When this function is selected, you can answer an incoming call by pressing any key briefly, except  and .

- 1 In the Call settings submenu, scroll with  or  to Anykey answer and press  **Select**.
- 2 Scroll to On or Off and press  **OK**.

Speed dialling (Menu 4 3 2)

When this function is selected, you can call a phone number assigned to a speed dialling key (any of 2 to 9) by pressing and holding the corresponding number key.

- 1 In the Call settings submenu, scroll with  or  to Speed dialling and press  **Select**.
- 2 Scroll to On or Off and press  **OK**.

Call waiting options (Menu 4 3 3)

With this menu function you can set the Call Waiting function to be either activated (**Activate**) or deactivated (**Cancel**). With **Status** option you can check whether the Call waiting is activated or not.

- 1 Scroll with  or  to either **Activate**, **Cancel** or **Status** option and press  **Select**.
- 2 Once you have selected this function to be either activated or cancelled, your phone will automatically make a call to a number provided by your local operator. From this number you will hear a message confirming that the Call waiting function for your phone is either selected to be activated or not.
- 3 Press  to finish the call after you have heard the message.

Own number sending (Menu 4 3 4)

You can select whether your phone number is sent to the number you are calling or not.

- 1 In the Call settings submenu, scroll with  or  to Own number sending and press  **Select**.

- 2 Scroll to one of the following options **Preset**, **Own setting** and press **OK**. Or press **Back** to exit the submenu. If you select **Preset** options, your phone number is shown in the number you are calling (unless you asked your number to be secret) and no service codes are needed. If you select **Own setting** option, a service code for activating this service is needed. (See Menu 4 4 4 2, Own number sending code.)

Speech scrambling (Menu 4 3 5)

When the **Speech scrambling** is activated, the phone scrambles the speech to increase calling security.

- **Note:** this feature scrambles conversation only between your phone and the nearest base-station it interacts with.
- 1 In the **Call settings** submenu, scroll with or to **Speech scrambling** and press **Select**.
 - 2 Scroll to one of the following options **On**, **Off** and press **OK**.
 - 3 During a call appears on the display if the scrambling is **On**, appears if the scrambling is **Off**.
- **Note:** Network support of speech scrambling may vary, which cannot guarantee speech scrambling in all conditions, even when this feature is enabled.
 - **Note:** Local laws may apply to scrambling conversations. Do not use this feature illegally.

Phone settings (Menu 4 4)

To enter this submenu:

In the **Settings** menu, scroll with or to **Phone settings** and press **Select**.

Language (Menu 4 4 1)

To enter this menu:

Press **Menu**, scroll with or to **Settings**, and press **Select**.

You can select the language in which the display texts are shown.

- 1 In the Phone settings submenu, scroll with  or  to Language and press  **Select** to change the language.

Country (Menu 4 4 2)

When you are abroad in a country where a NMT 450 network operates and you wish to use your phone, you have to change the phone's country code.

- 1 Use the scroll keys  or  to scroll through the list of available country codes.
- 2 Press  **OK** to select a country. The selected country code is displayed on the right hand side of the third display row.

Changing country code (Menu 4 4 3)

With this menu function you can choose the country code updating to be either semi-automatic or manual. The country code has to be updated when you go abroad if you wish to use your phone there.

- 1 Once you are in this menu, use the scroll keys  or  to scroll between available options Manual or Semi-autom.
- 2 Press  **Select** to select either of the options.
- 3 If you select Manual, you can change the country code with Menu 4 4 2, Settings, Phone Settings, Country.
- 4 If you select Semi-autom., the phone will automatically suggest a new country code once your phone is registered to a network in a new country.
 - **Note:** if you had selected Semi-autom. option and your phone can register to another network in a neighbouring country, a pop-up menu will automatically appear on the phone's display. With this menu the phone allows you to select a new country code, if necessary. To select a new country code, press  **Select**. A list of available country codes appears. Use the scroll keys  or  to scroll through the list of country codes and press  **Select** to select a suitable code.

Service codes (Menu 4 4 4)

Service codes are needed for activating telecommunication services such as Call diversion, Own number sending and Call waiting.

- **Note:** codes vary between different NMT 450 networks. Please check the correct codes from your local network operator codes. The phone will automatically add any special characters, such as * or # the codes may have. You need to enter only the numbers. For example, if your service provider gives you a code *21#, you need to key in only the numbers 2 and 1.

- 1 Scroll through the list of submenus with  or  keys and press  **Select** to enter a submenu.

Call divert codes (Menu 4 4 4 1)

- 1 Press  **Select** to enter the different call divert code options.
- 2 Scroll through the list of different call divert code options with  or  keys and press  **Edit** to view the different call divert codes.
- 3 You can check and edit a previously entered code for activating call diversion or to enter a new code.
- 4 Press  **OK** to accept a correct code or erase the code with  **Clear**.
- 5 Return to the previous menu level with  **Back**.

Own number sending code (Menu 4 4 4 2)

- 1 Press  **Edit** to check and edit a previously entered code for own number sending or to enter a new code.
- 2 Press  **OK** to accept a correct code or erase the code with  **Clear**.
- 3 Return to the previous menu level with  **Back**.

Call waiting code (Menu 4 4 4 3)

- 1 Press  **Edit** to check and edit a previously entered code for call waiting or to enter a new code.
- 2 Press  **OK** to accept a correct code or erase the code with  **Clear**.
- 3 Return to the previous menu level with  **Back**.

Welcome note (Menu 4 4 5)

You can compose a message (up to 36 characters) which appears on the display when the phone is switched on.

- 1 In the Phone settings submenu, scroll with  or  keys to Welcome note and press  **Select**.
- 2 Key in the message.
- 3 Press  **Options**, scroll with  or  keys to Save or Erase, and press  **OK**.

Display contrast (Menu 4 4 6)

You can adjust the phone's display contrast with this menu.

- 1 Press  **Select** to adjust the display contrast.
- 2 Use  and  keys to either increase or decrease the contrast.
- 3 Press  **OK** to accept the suitable contrast level. The phone returns to the previous menu level.
- 4 Press  **Back** to return to the previous menu level without changing the contrast.

Security settings (Menu 4 5)

You can protect your phone against unauthorised use using the functions within this submenu. To enter this submenu:

In the Settings menu, scroll with  or  to Security settings and press  **Select**.

PIN code request (Menu 4 5 1)

With this menu function you can select whether the PIN code is required when the phone is switched on.

Change PIN code (Menu 4 5 2)

With this menu function you can change the PIN code.

- 1 In the Security settings submenu, scroll with  or  to Change PIN code and press  **Select**.

- 2 Key in the current code and press  **OK**.
- 3 Key in the new code and press  **OK**.
- 4 Key in the new code again and press  **OK**.

- Note: The default PIN code is 0000.

Call barring (Menu 4 5 3)

This function allows you to restrict the making of calls with your phone. In the *Security settings* submenu, the phone requests for the PIN code. After the correct PIN code is entered you can scroll with  or  to the following submenus and press  **Select**.

You can add, edit, delete, select or unselect and view phone numbers or phone number groups to be barred.

Phone numbers to be barred can be determined in the number sets. You can determine a maximum of five number sets

Barring on/off (Menu 4 5 3 1)

With this menu function you can activate or deactivate Call Barring if you have activated (selected) at least one number set.

Settings (Menu 4 5 3 2)

This menu allows you to select, edit or delete number sets that determine the phone numbers to be barred.

Select Sets (Menu 4 5 3 2 1)

This menu has five different sets you can select or unselect. When you make modifications to settings, the phone prompts for confirmation of changes when you wish to exit the submenu.

Edit Sets (Menu 4 5 3 2 2)

This menu function allows you to add new numbers in the phone number sets or edit the already determined phone number sets. You can add several phone numbers or phone number prefixes in one set by separating the phone numbers/prefixes with *. For example, phone number

0912345 and prefix 990 are added into a set as follows: 0912345*990. You can key in a set a total of 30 digits, including * characters.

Delete Set (Menu 4 5 3 2 3)

With this menu function you can delete phone number sets.

Selected sets (Menu 4 5 3 3)

This menu allows you to view the list of all selected sets. If you have not selected any set, the message *No sets selected* appears on the display.

- **Note:** When calls are barred, calls may be possible to certain emergency numbers in some networks (e.g. 112 or other official emergency number).
- When you make a call and a barring mode is selected, the phone may display a reminder of this.

Phone information (Menu 4 6)

Own number (Menu 4 6 1)

You can check the phone's own number with this menu.

Network ID (Menu 4 6 2)

The network identifier is displayed to the user.

SIS reference (Menu 4 6 3)

The phone's SIS security reference code is displayed to the user. The reference code is used by the NMT network to register the phone.

Restore factory settings (Menu 4 7)

Within this submenu you can return the menu functions to their factory settings.

Note that this function has no effect on Phone Book functions.

- 1 In the *Settings* menu, scroll with  or  to *Restore factory settings* and press  **Select**.
- 2 Key in the security code and press  **OK**.

5 Call divert (Menu 5)



- 1 The Call divert network service allows you to direct your incoming calls to another phone number. Press **Menu**, scroll with **Left** or **Right** to **Call divert**, and press **Select**.
- 2 Scroll to one of the following divert modes and press **Select**.
- 3 Once you have selected to activate/cancel a certain divert mode or wish to check its status (whether the divert is activated or not), your phone will automatically make a call to a number provided by your local operator. From this number you will hear a message confirming that the divert mode is either activated or cancelled.
- 4 Press **End** to finish the call after you have heard the message.
 - **Note:** check with Menu 4 4 4 Setting, Phone Settings, Service codes that the codes for call divert are correct. Your local service provider can give you the correct codes.
 - **Note:** This function is operational only if the local network supports it. Check it with your service provider.

Divert all voice calls without ringing (Menu 5 1)

All voice calls are diverted without phone alerting.

Divert when busy (Menu 5 2)

All voice calls are diverted when the phone is busy.

Divert when not answered or not reachable (Menu 5 3)

Voice calls are diverted when your phone is switched off or outside of the network service area.

Cancel all divers (Menu 5 4)

All divers are set to Off.

- **Note:** If you selected **Cancel all divers**, the following steps will not be available.
- 1 Scroll to one of the following functions and press **⊖ OK**:
Activate, Cancel, Status (shows call types affected by selected divert mode).
 - 2 Do one of the following:
 - If you selected **Activate**, select the phone number to which you wish to divert the calls. Scroll to either of the following options and press **⊖ OK**:

Voice mailbox

Voice calls are diverted to your voice mailbox.

Other number

Calls will be diverted to the desired phone number. Key in the phone number or recall it from Phone Book, and press **⊖ OK**.

Pressing **⊖ Number** (if available) shows the phone number to which the calls are diverted. Pressing **⊖ Detail** (available only in "Divert when not answered") and then selecting **Delay** shows the time after which calls are diverted.

6 Games (Menu 6)



Now you can use your phone not only for communication but also for fun, as your phone is equipped with four games.

Remember! Your phone must be switched on to use this function. Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

- 1 Press **Menu**, scroll with **Left** or **Right** to Games, and press **Select**.
- 2 Scroll to the desired game and press **Select**.
- 3 Scroll to one of the following options and press **Select**.
- 4 All four games have either all or some of the following options:

Level

Allows you to set the difficulty level. Select the desired level with **Left** or **Right** and press **OK**.

Continue

Allows you to resume a paused game. Available only when there is a game paused.

Last view

Shows the final view of an ended game immediately after the game.

New game

Starts a new game session.

Top score

Shows the highest score of the game in your phone. Available only in the games which keep track of the score.

Instructions

Shows a brief help text on the game. You can scroll through the text with **More** (or **Left** and **Right**).

5 To play the games, proceed as follows:

Snake

Feed the snake with as many goodies as possible. Use - (except for) for moving the snake. The longer the snake's tail grows, the higher is your score. When the snake hits its own tail or the surrounding wall, the game is over.

Memory

Reveal pictures to find pairs with as few tries as possible. Move the cursor with the following keys: (up), (left), (right), (down), (jumps over revealed pictures and moves on to next row when at end of row), (jumps over revealed pictures and moves back to previous row when at start of row). reveals the pictures. Once found, pairs stay visible.

Logic

Find out a secret combination of figures. Available figures are shown at the top of the display before you accept the first guess row. Use and to move the cursor and to select the figure. To copy a figure from a previously accepted guess row, start scrolling with , move the cursor to the desired figure in the normal way and accept the selection with .

Once you think that you have got the right combination, press . The result is presented as a set of marks over the row. A correct figure in the right place receives a full mark; a correct figure in wrong place receives a half a mark. When all the figures are correct and in right places, the game ends.

React

Try to hit the targets with 50 tries (given in 6 try sequences). Use the keys - to hit the targets which appears randomly on the display. Reload the 6 tries with the key . Different targets give the following results:

Cactuses - you loose 25 points and 1 cactus hit

White carrot - you get 10 points

Black carrot - you get 5 points

White apple - you get 15 points and another 6 tries

Black apple - you get 20 points and 6 tries are reloaded

Black orange - you get 10 points and loose 6 tries

White orange - if you have hit a cactus less than three times, you get 10 points and a cactus hit. If you have hit a cactus three times you get 20 points.

You loose 10 points if you try to hit a target and miss it. The game is over after 30 seconds or if the player loses all three cactus hits.

- 6 While playing, pressing either selection key pauses the game. To resume a paused game, select `Continue`.

7 Calculator (Menu 7)



The phone is provided with a basic four function calculator which can also be used for rough currency conversions.

Remember! Your phone must be switched on to use this function. Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

To enter this menu:

Press **Menu**, scroll with **Up** or **Down** to **Calculator**, and press **Select**.

To make a calculation:

- 1 Enter the first number in the calculation using the **0-9** - **ways** keys. Press **0*** for a period (.).

Use **Clear** for editing.

- 2 To add, press **+*** once (+ appears).

To subtract, press **+*** twice (-).

To multiply, press **+*** three times (*).

To divide, press **+*** four times (/).

Or: Press **Options**, scroll with **Up** or **Down** to the desired function, and press **OK**.

- 3 Repeat steps 1 and 2 as many times as necessary. A subtotal is shown after each step 2. For a total, press **Options** (**Equals** is selected) and press **OK**.
- 4 To start a new calculation, press and hold **Clear**.

Note: This calculator has a limited accuracy and rounding errors may occur, especially in long divisions.

To make a currency conversion:

- 1 Set the exchange rate: Press **Options**, scroll to **Exchange rate**, and press **OK**. Scroll to either of the displayed options and press **OK**.
- 2 Next, key in the exchange rate (press **0#** for a period) and press **OK**.
- 3 Make the conversion: Key in the amount to be converted, press **Options**, scroll to **To domestic** or **To foreign**, and press **OK**.

8 Calendar (Menu 8)



The phone is provided with a calendar that can also be used as an appointment or birthday reminder.

Remember! Your phone must be switched on to use this function. Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

- 1 Press **Menu**, scroll with **Up** or **Down** to **Calendar**, and press **Select**.
- 2 Scroll to the desired date.
- 3 Press **Options** for the following functions. Scroll to the desired function and press **OK**.

View day

Shows notes set for the chosen day. Use **Up** or **Down** to browse through the note(s). Pressing **Options** allows access to the following functions. Scroll to the desired function and press **OK**.

Erase

Deletes the note. Press **OK** to confirm.

Edit

Allows you to edit the note. Edit the note and press **OK**.

Move

Allows you to change the date and time of the note. Key in the new date and press **OK**. Repeat this with the time.

Send note

Allows you to send the note as a text message (SMS). Key in the recipient's phone number and press **OK**.

Make note

Allows you to write a note. Scroll to the desired type of note and press **OK**.

Reminder (indicated by )

Key in the note and press  **OK**, key in the date or accept the current date and press  **OK**. For setting a tone alert, see below.

Call ()

Key in the desired phone number or recall it from Phone Book, and press  **OK**. Key in the date and press  **OK**. Repeat this with the time. For setting a tone alert, see below.

Meeting ()

Key in the note and press  **OK**. Key in the date and press  **OK**. Repeat this with the time. For setting a tone alert, see below.

Birthday ()

Key in the person's name and press  **OK**. Key in the date of birth and press  **OK**. Key in the year of birth and press  **OK**. The note and person's age will be shown in every forthcoming year. For setting a tone alert, see below.

Setting a tone alert for any note

You can set the phone to sound a tone in anticipation of a note: Press  **Yes**, key in the alarm date and press  **OK**. Repeat this with the alarm time. The presence of a tone alert is indicated by  when you view the notes.

Erase notes

Allows you to delete the selected note(s). Scroll to one of the displayed options and press  **OK**. If you selected *Of chosen day* or *One by one*, select the desired note and press  **Erase**. If you selected *All at once*, press  **Yes** to delete all the notes.

View all

Shows notes set for all days. Use  or  to browse through the note(s). Pressing  **Options** allows access to the same functions as in "View day". Scroll to the desired function and press  **OK**.

Go to date

Allows you to jump to the desired date. Key in the date and press  **OK**.

Set the date

Allows you to change the current date. Key in the new date and press  **OK**.

When the phone alarms for a note

The phone flashes its lights, beeps, and displays the note.

With a Call note on the display, you can call the displayed number by pressing .

If the phone was set to sound a tone alert, pressing

 **Postpone** suspends the alert for 10 minutes. Pressing this key again postpones the alarm for another 10 minutes. To stop the alarm, press  or  **OK**.

Note: If the battery is removed from the phone for a long time, you may need to set the time again.

9 FM Radio (Menu 9)



Your phone is equipped with an FM radio receiver.

Remember! Your phone must be switched on to use this function. Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

You can use the radio with a headset HDC-9. Connect the headset to a connector on the bottom of the phone.

The radio is not available when there is an incoming or outgoing call. The **FM** radio indicator appears on the top of the display when the radio is on. The **FM** indicator blinks when the radio function is interrupted.

- **Note:** the quality of the radio broadcast depends on the radio station's coverage in that particular area.
- **Note:** the submenu structure varies depending on whether the radio is turned on (for the first time) and whether the radio station names are saved in the memory.
- **Note:** If the headset is not connected to the phone, a message `Please connect headset` appears on the display.

Search (Menu 9 1/Menu 9 2)

When you use the radio for the first time or no radio stations have been saved in the memory, you can search for a station with **Select**.

If you press and hold **Left** or **Right** key, the radio starts automatically search for the available radio stations. If you press the **Left** or **Right** keys shortly, you can search for the radio stations manually. The search is automatically stopped if the radio is tuned into a radio station. You can either accept it or keep on searching by pressing and holding the **Left** or **Right** keys.

When the suitable radio station is found, you can accept it with  **OK**. The phone asks if you wish to save the radio station's frequency and/ or name in the phone's memory. You can edit and enter the information and save it in the phone's memory with  **OK** or return to the previous radio station with  **Back**.

- **Note:** Press and hold the  key to enter the number mode or press  key shortly to enter the alpha mode when you wish to save the radio station's information in the phone's memory.

Radio Off (Menu 9 1)

With this menu function you can turn the radio off.

Radio station names 1...5 (Menu 9 2...9 6)

If you have saved radio station frequencies possible with the radio station names in the phone's memory, they will appear automatically as submenus when you turn the radio on.

6. Additional information

DTMF tones

The phone can send DTMF tones to communicate with answering machines, computerised telephony services etc.

The tones can be sent even when the keypad tones are set to Off.

Manual transmission

Make a call to the desired phone number and key in the numbers that you want to send as DTMF tones.

Automatic transmission

Start a call in the normal way. Then, proceed as follows: Press **Options**, scroll with **Left** or **Right** to **Send DTMF**, and press **Left** **Select**. Key in the DTMF sequence or recall it from Phone Book, and press **Left** **OK** to send it.

Pressing **Left** **Exit** ends the DTMF transmission but not the call.

Placing pauses in a DTMF sequence

When keying in a DTMF sequence, you can place pause characters in front of or between DTMF numbers.

For a pause of 2.5 seconds, press ***p** three times quickly (**p** is displayed). When sending the sequence, all numbers following the pause(s) are sent as DTMF tones.

Using the batteries

Your phone is powered by a rechargeable Li-Ion or NiMH battery.

Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer.

The operation and the lifetime of the battery are greatly affected by how you handle the battery. Take good care of the battery and follow the guidelines presented below.

Charging and discharging the battery

- A new NiMH battery must be charged for at least 16 hours before you can use your phone. A new NiMH battery's full performance is achieved only after two or three complete charge and discharge cycles!
- The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- When a charger is not in use, disconnect it from the power source.
- Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its life.
- If left unused a fully charged battery will discharge itself over time.
- For good operation times with NiMH batteries, discharge the battery from time to time by leaving your phone switched on until it turns itself off. Do not attempt to discharge the battery by any other means.
- Temperature extremes will affect the ability of your battery to charge: allow it to cool down or warm up first.

Notes for using the batteries

- Use the battery only for its intended purpose.
- Never use any charger or battery which is damaged or worn out.
- Using the phone near the network's base station consumes less power. The operation times are greatly affected e.g. by the signal strength of the cellular network and the parameters set by the network operator.
- Do not short circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the back of the battery) for example when you carry a spare battery in your pocket or purse.
- Short circuiting the terminals may damage the battery or the connecting object.
- Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery.
- Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged.
- NiMH batteries performance is particularly limited in temperatures below -10°C (14°F).
- Li-Ion batteries performance is particularly limited in temperatures below 0°C (32°F).
- Do not dispose of batteries in a fire!
- Batteries must be recycled or disposed of properly. Must not be disposed of in municipal waste.

Access codes

The access codes described in this section help you protect against unauthorised use of your phone.

When asked for any of the access codes, key in the proper code and press  **OK**. If you make a mistake, first delete the digit with  **Clear** and then key in the correct one.

Note: Avoid using access codes similar to emergency numbers, such as 112, to prevent accidental dialling of the emergency number.

Security code

The security code is supplied with the phone. It protects your phone against unauthorised use. Keep the code secret and in a safe place, separate from the phone.

PIN code

- The PIN (Personal Identity Number) code protects your phone against unauthorised use. The default PIN code is 0000. Please change the PIN code with Menu 4 5 2, Security Settings, Change PIN code.

When the PIN code request is enabled the code is asked each time the phone is switched on. If you enter a wrong PIN code three times you need to know the security code to be able to use the phone again.

Care and maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years. When using your phone, battery, charger OR any accessory:

- Keep it and all its parts and accessories out of small children's reach.
- Keep it dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use or store it in dusty, dirty areas. Its moving parts can be damaged.
- Do not store it in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store it in cold areas. When the phone warms up (to its normal temperature), moisture can form inside the phone, which may damage electronic circuit boards.
- Do not attempt to open it. Non-expert handling of the device may damage it.
- Do not drop, knock or shake it. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint it. Paint can clog the device's moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.

If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you and, if necessary, arrange for service.

Important safety information

Traffic safety

Do not use a hand-held telephone while driving a vehicle. If using a hand-held phone park the vehicle before conversing. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Remember road safety always comes first!

Operating environment

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

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

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

Electronic devices

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

Pacemakers

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

Persons with pacemakers:

- Should always keep the phone more than 20 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 the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

Hearing aids

Some wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other medical devices

Operation of any radio transmitting equipment, including cellular phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your phone in health-care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (e.g. electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

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

Potentially explosive atmospheres

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

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

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

Vehicles

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

Check regularly that all 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 in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Switch off your phone before boarding an aircraft. The use of wireless telephones in an aircraft may be dangerous to the

operation of the aircraft, disrupt the wireless telephone network and may be illegal.

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

Emergency calls

IMPORTANT!

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 upon any wireless phone for essential communications (e.g. medical emergencies).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength.

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

To make an emergency call:

- 1 If the phone is not on, switch it on.
- 2 Make sure the phone is ready for a new call. (If you are in a menu/ submenu, clear the display and return the phone to the standby mode with )
- 3 Key in the emergency number for your present location (e.g. 112 or other official emergency number). Emergency numbers vary by location.
- 4 Press the  key.

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

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your wireless 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.

Index

A

access codes	73
access the Phone Book	17
alarm clock	49
anykey answer	51

B

battery	
attach the battery to the phone	8
charging/discharging	71
notes for using the batteries	72

C

calculator	63
calendar	65
call	
making a call	14
receiving a call	15
call barring	56
call divert	58
call register	42
call settings	
anykey answer	51
call waiting options	51
own number sending	51
speech scrambling	52
speed dialling	51
call waiting	17, 51
caller group	
including a phone number in a caller group	25
setting a ringing tone and graphic for a caller group	25
care and maintenance	74
change your phone's settings	49
charging a new battery	13
clock	50
conference call	17

currency conversion	64
D	
display indicators	11
DTMF tones	70
E	
earpiece volume	17
electronic devices	75
emergency calls	78
erase a phone number and a name	24
F	
FM radio	68
G	
games	60
I	
international calls	14
L	
last number redial	16
list of keys	10
list of menus	31
lock keypad	20
M	
memory status	28
menu functions	
accessing the menu	29
exiting the menu	30
message centre number	38
message encoding	39
message settings	
set specific settings	37
sets	37
messages	19
inbox (reading a text message)	34

outbox (sending a text message)	36
retrieve messages	40
write messages	36
N	
number and character keys	10
O	
one touch dialling. See speed dialling	51
P	
personalise your phone	46
phone	
switch the phone on/off	13
Phone Book	
editing name and phone number	27
keying in a name and a phone number	22
phone settings	
adjust the display contrast	55
change the country code	53
change the language	52
edit the welcome note	55
phone tones	
incoming call alert	21
PIN code	73
change PIN code	55
PIN code request	55
power key	10
profiles	
changing profile settings	45
Q	
quick start	8
R	
recall a phone number	23
ringing tone	21
ringing volume	21

S

safety instructions	75
save a phone number	23
scroll keys	10
security code	73
selection keys	10
service codes	
call divert codes	54
call waiting code	54
own number sending code	54
set a tone alert for a note	66
special character keys	10
speed dialling	26, 51

T

text messages	19
traffic safety	75

U

unlock keypad	20
user profile	18

V

voice messages	
listen to voice messages	18, 40
voice mailbox number	41
volume keys	10

W

welcome note	55
--------------------	----