

**Nokia 7190
(HD955)**

**Owner's Manual
version 0.04**

The wireless phone described in this guide is approved for use in GSM 1900 and AMPS 800 networks.

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Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility.

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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• For Your Safety



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



Road Safety Comes First

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



Switch Off In Hospitals

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



Switch Off On Aircraft

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



Switch Off When Refueling

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



Switch Off Near Blasting

Do not use the phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.



Interference

All wireless phones may get interference which could affect performance.



Use Sensibly

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







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.

- Connecting To Other Devices**
When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products. Remember to make backup copies of all important data.
- Making Calls**
Ensure 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 the phone is switched on and in service. If the word "Clear" appears on the display above the <right selection> key, press and hold Clear to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.
- Infrared Precautions**
Do not point the IR beam at anyone's eyes or allow it to interfere with other IR devices.

1. Welcome

- How to use this manual

SYMBOL	MEANING
<TBD>	This feature is a network service and may require a subscription.
<TBD>	This feature may or may not be available depending on your SIM card. Contact the company that sold you the SIM card.
<TBD>	This is a cool feature!
<TBD>	Warning
<TBD>	This is a tip that will help you use your phone more efficiently.

Network services

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.

Note: Some networks may not support all language-dependent characters.

Updates

The latest version of this Owner's Manual may be available on Nokia's World Wide Web site at www.nokia.com.

- **How to contact Nokia**

Customer service, USA

Nokia Mobile Phones
6200 Courtney Campbell Causeway, Ste. 900
Tampa, FL 33607
Tel: 1-888-NOKIA2U (1-888-665-4228)
or (1) 813-288-3800
Fax: (1) 813-287-6612
TTY: 1-800-24NOKIA (1-800-246-6542)

Customer service, Canada

Nokia Products Ltd.
575 Westney Rd. South
Ajax, Ontario L1S 4N7
Tel: (1) 905-427-6654

2. Preparing your phone for use

- **Diagrams**

Front

antenna
power key
earpiece (speaker?)
display
selection keys
roller
number keys
slide
microphone

Back

external antenna jack
slide eject button
SIM card holder
label (IMEI, model number)

Top

IR port

Bottom

microphone
data/car kit connection
charger connection

- **About the labels on your phone**

Your phone has labels on it. These are important for service and related purposes, so be careful not to lose the label or the information it contains.

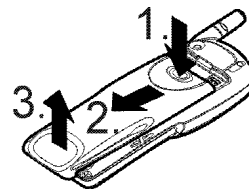
- **Getting started**

Before you can use your phone, you first need to

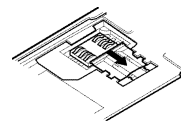
- install a valid miniature SIM card in the phone and
- charge the phone battery.

- **Install the SIM card**

1 With the back of the phone facing you, press the locking catch of the battery (1), slide the battery down (2) and lift the battery off the phone (3).

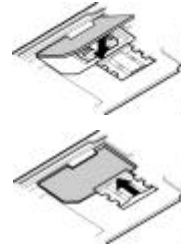


2 Release the SIM card holder by sliding it to the right.



Preparing your phone for use

- 3 Insert the SIM card, ensuring that the bevelled corner is on the bottom right and the golden contact area is downwards.
- 4 Slide the card holder to the left to lock the card in its place.
- 5 Place the battery on the back of the phone and slide it up the body of the phone until it locks into place.



Notes about SIM cards

- Keep all miniature SIM cards out of the reach of small children.
- The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting or removing the card.
- Before installing the SIM card, always make sure that the phone is switched off before you remove the battery.

• Charge the battery

- 1 Connect the lead from the charger to the bottom of the phone.
- 2 Connect the charger to an AC wall outlet. The battery indicator bar starts to scroll.

Note: If the battery is totally empty, it may take a few minutes before the charging indication appears on the display.

Tip: The phone can be used while charging if the phone is switched on.

- 3 The battery is fully charged when the battery indicator bar stops scrolling, and the `Battery full` text is briefly displayed if the phone is switched on.

Charging time depends on the charger and battery used. For example, the charging time for the BLS-2S battery with the ACP-7 charger takes about 2 hours.

- 4 Disconnect the charger from the AC outlet and the phone.

• Switch the phone on (or off)

- 1 Press & hold **I** for more than a second.

If the phone asks for a PIN code, enter the PIN code, which is displayed as asterisks, and press Roller.

If the phone asks for a security code, enter the security code, which is displayed as asterisks, and press Roller.

For more information, see "Access codes" on page 80.














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

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.

3. About Your Phone

- Using the keys


	<p>Power key: Press and hold the key to switch the phone on or off. Tip: Press the key briefly (with clear display) to enter the list of adjustable Profiles. See page 28 for details.</p>
	<p>Selection keys: Press to perform the function indicated by the text on the display above the key. See page 10.</p>
	<p>Roller: Roll the roller up or down to scroll through names, phone numbers, menus or setting lists. Press once to select the highlighted item. Roll during a call to adjust the earpiece volume. See page 10.</p>
	<p>Talk key: Press to make a call to name/number shown on the display or to answer a call. Tip: Press once to enter the list of last dialed numbers.</p>
	<p>End key Press to end or reject a call. Tip: Press once to exit a function & to restore the standby mode.</p>
	<p>Number keys: Used for entering numbers and letters. Tip: Press and hold  to call your voice mailbox.</p>
	<p>Special character keys:  is used for entering special characters.  is used to perform some special functions. For example: Pressing  while you are in alpha mode changes the letter case.</p>

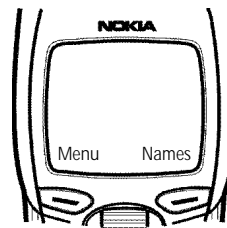
(eject)

Slide ejection key: Press to open the sliding cover.

Using the selection keys

Below the display you can find two selection keys. Their functions depend on the guiding texts shown above the keys.

For example, when there is the text **Menu** above the left selection key , pressing this key enters the menu functions.



Similarly, pressing the right selection key  under text **Names** allows you access to the phone book functions.

In this user guide, the selection keys are indicated by the relevant guiding text appearing in bold (for example, **Menu** or **Names**).

Using the roller

The **Roller** functions both as a scroll key and as a selection key.

Roll the roller up or down to scroll through names and numbers saved in phone book or through phone's menus, submenus and option lists.



Press once to select the highlighted function or setting, or to show details of the highlighted name or number (in phone book).

Press and hold to make a call to the displayed or highlighted name or number when the sliding cover of your phone is closed.

Tip: When the left selection key text is **Select**, pressing **Roller** instead of the left selection key performs the same function.

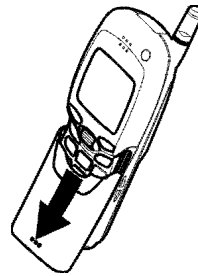
Tip: Press **Roller** once (in standby mode) to access the Roller Menu. For information about customizing the Roller Menu, see page 32.

- **Using the sliding cover**

The pop-out sliding cover protects the number keys on your phone and can be used to answer, end or reject a call. (See page 22 for details.)

To open the sliding cover, press the slide ejection key at the upper back side of the phone or manually slide the cover down.

To close the slide, slide the cover up until it locks into place.



Tip: If you have locked the keypad of your phone, the keypad is always unlocked when you open the sliding cover.

Tip: Closing the sliding cover always exits the menu and phone book functions and restores the clear display.

Re-attaching the slide


If the plastic part of your phone's slide accidentally comes off, re-attach it as described below.

- 1 Slide the metal part of the slide up the body of the phone until it locks into place.
- 2 Attach the plastic part of the slide back to the phone (along the grooves on the sides) and slide it up the body of the phone until it locks into place.
- 3 Press the top part of the slide from both sides to ensure that the two parts of the slide are properly attached.

- **About display indicators & icons**

Display indicators and icons inform you about the operation of your phone. Most essential indicators and icons related to various phone functions are explained later in this user's guide.

Standby mode

The indicators described below are shown when the phone is ready for use, with no characters entered by the user. This screen is called standby mode or clear display. 

Operator: Indicates in which wireless network the phone is currently used.

(antenna pic.) Shows the signal strength of the wireless and barnetwork at your current location. The higher the bar, the stronger the signal.

(battery pic.) Shows the battery charge level. The higher the and barbar, the more power in the battery.

- **About the phone book**

You can store phone numbers and their associated names in the memory of the phone (internal phone book) or the SIM card (SIM phone book). The internal phone book can store up to 1000 names with multiple numbers per name (see "Saving several numbers with a name" on page 40.) The phone supports SIM cards which can store up to 250 names and phone numbers.

For saving names and phone numbers, see "Phone Book" on page 33.

To use the phone book:

Press **Names**, scroll to the desired function (for example, **Add new**) and press **Roller**.

To access your list of saved names and numbers:

- Press **Names**, scroll to **Names list** and press **Roller**.

Tip: You can also access the **Names list** by pressing **Roller** (in standby mode), if the Roller Menu shortcut is set to access it. See page 72 for details.

Note: When you insert a new SIM card into your phone, the phone may ask you to copy the names and numbers saved in the SIM card's memory into your phone's internal memory. Press **Yes** to do the copying. You can also do the copying later; see page 45 for details.

• About the menu

The phone offers you an extensive range of functions which allows you to tailor the phone to your needs. These functions are grouped in menus and submenus.

The menus and submenus can be accessed by rolling the **Roller** or using the appropriate shortcut number. (See page 14.)

Accessing a menu function by rolling the roller

- 1 Press **Menu** to access the menu facility.
- 2 Scroll to the desired main menu, for example **Settings**, and press **Roller** to enter the displayed menu.
- 3 If the menu contains submenus, scroll to the desired submenu and press **Roller** to enter the submenu (for example, **Call settings**).
If the menu contains submenus (for example, **1-touch dialing**), repeat step 3.
- 4 Scroll to the desired setting option.
- 5 Press **Roller** to select the highlighted setting.

Tip: You can return to the previous menu level by pressing **Back**, or exit the menu without changing any settings by pressing **Exit**. You can also exit the menu by pressing and holding **Back**, for example when the slide is closed.

Tip: You can always exit the menu by pressing  without changing the menu settings. Pressing  restores the standby mode.

Header line

The header line on top of the display helps you to locate where you are in the menu or phone book.

Help texts

Most of the menu functions are provided with a brief help text. To view the help text of a menu function, scroll to the desired menu function and wait for 10 seconds.

Accessing a menu function by its shortcut

Most menu items (menus, submenus and setting options) are numbered and can be accessed by their shortcut number. The shortcut number is shown in the top right corner of the display. For menu shortcut numbers see "List of main menu functions" on page 15.

- 1 Press **Menu**.
- 2 Within 3 seconds, enter the first number of the menu function you want to access. Repeat until you have entered all of the numbers.

For example: To set the menu function **1-touch dialing** to on, press **Menu 4** (for **Settings**) **2** (for **Call settings**) **2** (for **1-touch dialing**) **1** (for selecting **On**).

- **List of main menu functions**

1 Messages

- 1 Inbox
- 2 Outbox
- 3 Archive
- 4 Templates
- 5 Voice messages
- 6 News & info service
- 7 Service command editor
- 8 NN number of user-defined folders ??

2 Call log

- 1 Missed calls
- 2 Dialed calls
- 3 Received calls
- 4 Clear call lists
- 5 Call timers
 - 1 Last call duration
 - 2 Digital calls duration
 - 3 Analog calls duration
 - 4 Clear digital call timers
 - 5 Clear analog call timers
- 6 Call costs
 - 1 Last call cost
 - 2 All calls cost
 - 3 Clear counters

3 Profiles

- 1 Normal
 - 1 Activate
 - 2 Customize
 - 1 Allowed caller groups
 - 2 Ringing options
 - 3 Ringing tone
 - 4 Ringing volume
 - 5 Vibrating alert
 - 6 Message alert tone
 - 7 Keypad tones
 - 8 Warning tones
- 2 Silent
 - 1 Activate
 - 2 Customize (same submenus as Normal profile)
 - 3 Rename
- 3 Meeting (same submenus as Silent profile)
- 4 Outdoor (same submenus as Silent profile)
- 5 Pager (same submenus as Silent profile)
- 6 Car ¹
 - 1 Activate
 - 2 Customize (same submenus as Normal profile, plus Automatic Answer and Lights)

1. This profile is shown only after the phone has been connected to the CARK-91 car kit.

- 7 Headset ¹
 - 1 Activate
 - 2 Customize (same submenus as Normal profile, plus Automatic Answer)

4 Settings

- 1 Time settings
 - 1 Alarm clock
 - 2 Clock
- 2 Call settings
 - 1 Anykey answer
 - 2 1-touch dialing
 - 3 Automatic redial
 - 4 Send own number
 - 5 Call waiting
 - 6 Line for outgoing calls
 - 7 Calling card
 - 8 Summary after call
 - 9 Fax or data call
 - 1 Fax & data
 - 2 Fax, data & voice
- 3 Phone settings
 - 1 Language
 - 2 Emergency key ⁹
 - 3 Welcome note
 - 4 Network selection
 - 5 Roller function
 - 6 SIM updates

1. This profile is shown only after the phone has been used with the HDC-9 headset.

- 7 Notifications on SIM update
- 8 Touch tone length
- 9 List of own numbers
- 4 Security settings
 - 1 SIM card security
 - 2 Security level
 - 3 Module security
 - 4 Call restrictions
 - 5 Fixed dialing
 - 6 Caller groups
 - 7 Change access codes
 - 1 Change PIN code
 - 2 Change PIN2 code
 - 3 Change security code
 - 4 Change restriction password
 - 5 Change module code
- 5 Analog module settings
 - 1 Digital/analog selection
 - 2 Analog system selection

5 Forwarding

- 1 Forward all voice calls without ringing
- 2 Forward if busy
- 3 Forward if not answered
- 4 Forward when phone off or no coverage
- 5 Forward all fax calls
- 6 Forward all data calls
- 7 Cancel all call forwarding

6 Games

- 1 Rotation

- 2 Snake
- 3 Tennis
- 7 Calculator
- 8 Calendar
- 9 To-Do
- 10 Browser
- 11 Activate IR
- 12 SIM services

- **List of phone book menu functions**

- 1 Names
- 2 Find
- 3 Add entry
- 4 Edit name
- 5 Erase
 - 1 One by one
 - 2 Erase all
- 6 Copy
- 7 Add number
- 8 Options
 - 1 Memory in use
 - 2 Beam
 - 3 Print all via IR
 - 4 Phone book view

- 5 Add voice tag
- 6 Memory status

9 1-touch dialing

10 Service numbers



11 Caller groups


- 1 Family
 - 1 Rename group
 - 2 Group ringing tone
 - 3 Group graphic
 - 4 Group members
- 2 VIP
- 3 Friends
- 4 Business
- 5 Other

4. Calls

- Making & answering calls

Making a call



- 1 Open the sliding cover.
 - 2 Enter the phone number including the area code and press  (or press and hold down the **Roller**).
- Normal position:** Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.
- 3 Press  to end the call (or to cancel the call attempt). You can also end the call by closing the sliding cover.

Tip: To make an international call, enter the international prefix (by pressing  twice) and the country code before entering the area code and phone number.

Making a call using voice dial

If you have recorded a voice tag for a phone book entry (see “Saving a voice tag with an entry” on page 34), you can dial that entry by speaking the tag into the microphone.

Answering a call

- 1 Open the sliding cover to answer an incoming call. If the sliding cover is already open, press  to answer the call.
- 2 Press  or close the sliding cover to end the call.

Tip: You can reject an incoming call by pressing  or by closing the sliding cover. If you have activated **Forward when busy**, the rejected call will be forwarded.

Answering, ending and rejecting a call by using the sliding cover

- To answer an incoming call, open the sliding cover.
- To reject or end an incoming call, close the sliding cover.



Adjusting the earpiece volume

You can adjust the earpiece volume while in a call by rolling the roller upwards to increase the volume and downwards to decrease the volume.

picture


Last number redial

The last ten phone numbers you dialed are saved in the phone's memory. To redial one of these last dialed numbers:

- 1 With display clear, press  once to access the list of the last-dialed numbers.
- 2 Scroll with **Roller** to the desired name/number.
- 3 Press  to dial the displayed name/number.


Also see "Call log" on page 25.

Calling your voice mailbox

- 1 Press and hold  (with clear display).
- 2 If the phone asks for your voice mailbox number, enter it and press **Roller**.

picture

Voice mail is a network service. For more information and for the voice mailbox number, contact your service provider.

Tip: When  is displayed, just press **Listen** to call your voice mailbox number.

• In-call functions

Your phone provides a number of functions (in-call options) which you can use during a call. You cannot utilize all of these functions at all times. Many of the in-call options are network services.

By pressing **Options** during a call some or all of the following in-call options may be available: **Hold** or **Unhold** (to put a call on hold or to unhold a call), **New Call** (to make a call when you have a call in progress), **Send DTMF** (to send DTMF tones saved in phone book), **End all calls** (to end all calls), **Phone Book** (to access the phone book), **Menu** (to access the Menu), **Mute** (to mute the phone's microphone), **Swap** (to switch between the active call and call put on hold).


Call waiting

This network service allows you to answer an incoming call while you have a call in progress if you have activated the menu function **Call Waiting** (Menu 4-2-5).

1 Press **Answer** or . The first call is put on hold.



To reject the call, just ignore the call. Or, first press **Options**, scroll to **Reject** and then press **OK**. If you have activated **Forward when busy**, the rejected call will be forwarded.

To switch between the two calls, press **Swap** or .

2 To end the active call, press  (or to end both calls at the same time, press **Options**, scroll to **End all calls** and press **OK**.)

Call hold


This network service allows you to make another call while you have a call in progress.

- 1 Press **Hold**. The first call is put on hold.
- 2 Make the second call.
- 3 To switch between the two calls, press **Swap** or .
- 4 To end the active call, press  (or to end both calls at the same time, press **Options**, scroll to **End all calls** and press **OK**).

Tip: You can also mute the line for a while. Press **Options**, scroll to **Mute**. When you want to resume the muted call, press **Unmute**.

Making a conference call

This network service allows up to six persons take part in a conference call.

- 1 Make a call to the first participant.
- 2 Press **Options** and scroll to **New Call** and press **Roller**. Make the call to the second participant. The first call is put on hold.
- 3 To join the first participant in the conference call, press **Options**, choose **Conference** and press **Roller**.
- 4 To add a new person to the call, repeat the steps 2 and 3.
- 5 To have a private conversation with one of the participants:
 - Press **Options**, scroll to **Private** and press **Roller**.
 - Scroll to the desired participant and press **OK**.
 - Once you have finished the private conversation, return to the conference call as described in step 3.
- 6 To end the conference call, press .

Transferring a call

When you have one call active and one on hold, this network service allows you to connect these two calls and disconnect yourself from the call.

- **Call log**

Within this menu you can view and delete phone numbers registered by the phone, and view the approximate length and cost of your calls (network service).

In the options of the missed calls, dialed numbers or received calls menus you can view the date and time of the call, view, edit or erase the number from the list or save the number in the phone book.

Note that the phone registers missed and received calls only if the network supports the Calling Line Identification function, the phone is switched on and is within the network's service area.

Missed calls

Within this submenu you can view the ten phone numbers from which somebody has most recently tried to call you with no success.

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

Dialed calls

Within this submenu you can view the ten phone numbers that you have most recently called or attempted to call.

Tip: To quickly access the list of last dialed numbers, press **CALL** once (with clear display).

Received calls

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

Clear call lists

This menu function allows you to erase all the phone numbers listed in the Missed Calls, Received Calls and Dialed calls submenus. Note that you cannot undo the operation.

Show call duration

Within this submenu, you can view the duration of your incoming and outgoing calls in hours, minutes and seconds. You can also clear the call timers. To clear the timers, you need the security code.

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

Show call costs

This network service allows you to check the costs of your last call or all calls and clear the call cost counters. To clear the counters you need the PIN2 code.

The costs are shown independently for each SIM card in terms of units set within the menu function `Call cost settings` (Menu 2-6).

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

Call cost settings

Call cost limit

You can limit the costs of your calls to a selected number of charging units or units of currency (set within Menu 2-6).

If set to `On`, the number of remaining units is shown on the display (at clear display). Depending on the SIM card you may need the PIN2 code to set this function to `on`.

Note: When no more charging or currency units are left, only calls to the emergency number 911 may be possible.

Show costs in

The phone can show the call cost limits in terms of charging units or the selected currency. To select the currency or unit within this submenu, you need the PIN2 code. Contact your service provider for charging unit prices.

• Call forwarding

This network service allows you to forward your incoming calls to another number, for example to your voice mailbox. For details, contact your service provider.

You can select one of the following forwarding modes:

- **Forward all voice calls without ringing** (Menu 5-1)
All voice calls are forwarded and no ringing tone is played at an incoming call.
- **Forward if busy** (Menu 5-2)
Voice calls are forwarded when your number is busy.

Tip: If **Forward when busy** is activated, rejecting an incoming call will also forward the call.

- **Forward if not answered** (Menu 5-3)
Voice calls are forwarded when you don't answer a call within the preset time-out.
- **Forward when phone off or no coverage** (Menu 5-4) Voice calls are forwarded when your phone is switched off or outside of the network service area.
- **Forward all fax calls** (Menu 5-5)
All fax calls are forwarded.
- **Forward all data calls** (Menu 5-6)
All data calls are forwarded.

For each of the above modes you can select **Activate** (turns forwarding on if allowed by the network), **Cancel** (turns forwarding off) or **Status** (shows the call types affected by the forwarding mode).

Within the submenu **Cancel all call forwarding** (Menu 5-7), you can cancel all call forwarding.

5. Customizing your phone

• Profiles

Within the Profiles menu (Menu 3), you can adjust and customize the alert of your phone for different events, environments and caller groups.

How to select a profile

If you want to change the currently selected profile (Normal is the default), quickly press the **1** key. Then scroll to the profile you want to activate and press **Roller**. Choose **Activate**, then press **OK**.

To access the list of profiles through the menu, press **Menu**, then scroll to **Profiles** and press **Roller**.

Tip: If you don't want your phone to ring at an incoming call, select the **Silent** profile.

How to customize a profile

- 1 Press **1** once.
- 2 Scroll to one of the following profiles and press
Options: Normal (default), Silent, Outdoor, Meeting, Pager, Car¹, Headset².
- 3 Select **Customize** and press **OK**.

1. This profile is shown only after the phone has been used with a car kit.

2. This profile is shown only after the phone has been used with a headset.

Note: When the phone is connected to the headset (HDC-9), this option is not available.

- 4 Scroll to the setting you want to customize (for example, **Ring**ing tone) and press **Roller**.
- 5 Scroll to the desired option and press **OK**.

Settings you can customize

Incoming call alert

Defines how the phone notifies you of an incoming voice call. The options are: **Ring**ing, **Asc**ending, **Ring once**, **Beep once**, **Caller groups** and **Silent**.

Note:

- If **Incoming call alert** is set to **Silent**, no ringing tone, message alert tone, keypad tones, warning tones, or game tones will be heard.
- When **Caller Groups** is selected, the phone rings only upon calls from phone numbers which belong to a selected caller group. (Also a graphic is shown, if you've selected one for that group.) See "Caller groups" on page 46.

Ringing tone

Sets the ringing tone for voice calls.

Note: You may be able to download a new ringing tone via the text message (SMS) service or via your phone's IR port. For more information, contact your service provider.

Ringing volume

Sets the volume level for ringing and message alert tones.

Vibrating alert

Sets the phone to vibrate at an incoming voice call. The vibrating alert does not work when the phone is connected to a charger or desktop stand.

Message alert tone

Sets the ringing tone type for text messages.

Keypad tones

Sets the volume level for keypad tones or turns the keypad tones off.

Warning and game tones

Turns warning and game tones on or off. For example, when turned on, the phone sounds a warning tone when the battery is running out of power.

Automatic answer (in Car and Headset profiles only)

Sets the phone to answer an incoming voice call after one ring.

Note: This function can only be used when your phone is connected to a headset or to a car kit equipped with the ignition sense option, with the ignition on.

Lights (in Car profile only)

Turns the display and keypad lights on or off.

Renaming profiles

You can rename any profile except the Normal, Car, and Headset profiles.

- 1 Press **Menu**, scroll with **Roller** to **Profiles** and press **Roller**.
- 2 Scroll to the profile you want to rename and press **Options**.
- 3 Scroll to **Rename** and press **OK**.
- 4 Enter the new name and press **OK**. For information about entering letters, see page 35.

- **Setting the display language**

Within the `Language` menu (4-3-1) you can select the language for your phone's display. If the setting `Automatic` is selected, the language is chosen based on the current SIM card.

Language setting also affects the time and date formats of the following functions: Alarm clock (Menu 4-1-1), Clock (Menu 4-1-2) and Calendar (Menu 8).

- **Displaying the clock**

The phone is provided with a clock. With the `Clock` menu (4-1-2) you can set the phone to show the clock in the top right of the display, set the time, and choose whether the clock uses a 12-hour or 24-hour format.

- **Welcome note**

With the `Welcome note` menu (4-3-3), you can write a message of up to 36 characters that is briefly displayed every time the phone is switched on.

- **Displaying last call duration**

You can set the phone to briefly display the duration and cost (if supported by the network) of the last call directly after the call has been ended. To do this, set the menu function `Show call time and cost` (4-2-8) to on.

- **Customizing the roller menu**

Pressing the **Roller** with clear display activates the Roller Menu, allowing you quick access to certain phone features. As a default, the Roller Menu allows you access to the list of names and numbers saved in phone book (**Names List**).

You can set the Roller menu to access another function that you often use (for example, Profiles or the list of last dialed numbers). This you can do within the **Roller function** submenu (4-3-5); see page 72.

6. Phone Book

Before saving any names and numbers, you may want to select where they will be saved—in the phone's internal memory or in your SIM card's memory. You may also want to select how the saved names and phone numbers are shown.

Selecting the type of memory in use

- 1 Press **Names**, scroll to **Options** and press **Roller**.
- 2 Scroll to **Memory in use** and press **Roller**.
- 3 Scroll to **SIM card** or **Phone** and press **OK** to select the highlighted memory.

Tip: If you want to store more than one number with a name, select the **Phone** option.

Setting the type of view for saved names & numbers


Your phone can show the saved names and phone numbers in two ways:

- **Name list** shows four names at a time.
 - **Name , number** shows one name and phone number at a time.
- 1 Press **Names**, scroll to **Options** and press **Roller**.
 - 2 Scroll to **Scrolling view** and press **Roller**.
 - 3 Scroll to **Name list** or **Name , number** and press **OK** to select the highlighted option.

- **Saving names & numbers**

Saving a name & phone number (Add entry)

- 1 Press **Names**.
- 2 Press **Options** and scroll to **Add entry** and press **OK**.
- 3 Enter the name and press **OK**. See “Entering letters & numbers” on page 35.
- 4 Enter an area code and phone number, and press **OK**.

If you enter the + character for the international prefix (by pressing  twice) in front of the country code, you can also use the phone number when calling from abroad.

Quick Save: With the display clear, enter the phone number and press the left selection key twice. Enter the name and press **OK**.

Saving a voice tag with an entry

You can assign a recorded “voice tag,” such as a person’s name, to up to 10 phone book entries. This feature allows you to dial the phone number by saying the name you have recorded.

Record a voice tag when saving a new entry

- 1 When adding a new entry, the phone displays **Add voice?** Press **Start**.
- 2 Wait for the tone, then speak the name you want to assign to the entry.
- 3 The phone replays the tag and asks you to confirm that it is correct.

Add a voice tag to an existing entry

- 1 Select the phone book entry to which you want to add a voice tag.
- 2 Scroll to **Add voice**.

The phone displays **Press Start and speak.**

- 3 Press **Start**, then start speaking.

Edit an existing voice tag

- 1 Select the phone book entry whose voice tag you want to edit.
- 2 Scroll to **Voice tag**.
- 3 Scroll to **Replay, Change, or Remove**.
- 4 If you chose **Change**, press **Start** to start recording.


Notes about voice tags

- The voice tag must be between .05 seconds and 2.55 seconds in length.
- If the voice tag memory is full, the phone asks if you want to replace an existing tag. If so, choose the entry whose tag you want to erase, then press **OK**.
- Deleting a phone book entry erases any associated voice tag.
- If you are adding an additional phone number to an existing phone book entry, you will not be prompted to add a voice tag.

• Entering letters & numbers

You can enter letters and numbers either by using the **Roller**, number keys (1 to 9), or predictive text input.

Using the roller to enter letters & numbers

- 1 Scroll through the character & number list on the far right of the display when in alpha mode (indicated by **ABC** or **abc** at the top left of the display) 
- 2 Press **Roller** to insert the highlighted letter or number.

- 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.
- To move the cursor, scroll to one of the arrow symbols (-> or <-) and press **Roller** to move the cursor in the direction of the highlighted arrow symbol.



You can also move the cursor by first pressing **Options**, then pressing **Roller** at **Move cursor**. Scroll to the desired location and press **Done** to move the cursor.

Tip: Entering numbers using **Roller** may come in handy, when you want to dial and call a number without opening the sliding cover.

Using number keys to enter letters & numbers

Once in alpha mode, press the key labelled with the character you want: once for the first character, twice for the second and so on.

The available characters, depending on the display language chosen (see "Language" on page 71), are:

KEY	CHARACTERS
1	. , ? ! - & 1
2	A B C 2 Ä Å Æ Ç Æ Æ
3	D E F 3 É Ê Ë Ì
4	G H I 4 Î Ï Ï Ð Ý
5	J K L 5 É
6	M N O 6 Ö Õ Ñ O O Ø
7	P Q R S 7 \$ ß
8	T U V 8 Ù Ú Û Ü
9	W X Y Z 9
0	space, 0
	special characters such as + and %
	upper or lower case

- 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. Or, press and hold **#0** to switch to number mode (indicated by 123 at the top of the display). To switch back to alpha mode, press and hold **#0** again.
- To insert a space, press 0.
- Pressing ***+*** brings up a list of special characters. Scroll to the desired character and press **Roller** to select the highlighted character. If the character list continues on the next screen, you can scroll between the screens by pressing ***+***.

Tip: When entering names in phone book, the phone uses title case, which automatically writes the first character of a name in upper case and the rest of the word in lower case. When writing a text message or other text, the phone uses the text case, which automatically writes the first character of each sentence in upper case.

Using the predictive text input

Your phone offers you a quick way to write text messages. This predictive text input is based on a built-in dictionary to which you can also add new words. Note that the predictive text input may not be available for all languages.

In the predictive text input you only need to press each number key **once** for one letter.

Turning predictive text input on/off and selecting dictionary language

- 1 Once in the **Messages** menu, press **Options**, scroll to **Dictionary** and press the **roller** to turn the predictive text input on.

If you decide not to use the predictive text input for writing messages, set this option to **Off**.

- 2 Scroll to the desired language and press **OK**.

- 3 When the predictive text input is in use, the <??> indicator is shown at the top of the display.

Tip: If the predictive text input is off, you can quickly turn it on by selecting the option **T9 on/off**. If predictive text input is on, selecting **T9 on/off** turns it off.

Writing words using the predictive text input

- 1 When in the predictive text input, start writing a word by using the keys 2 to 9. Press each key only once for one letter. For example, to write 'hello', press 4 for h, 3 for e, 5 for l, 5 for l and 6 for o.

Do not pay any attention to how the word appears on the display until you have completed the word.

- 2 If the displayed word is correct, press 0 to get a space, then start writing the next word.

If the displayed word is not correct, press <asterisk> for further matches. To return to the previous match, press **Undo**.

Tip: To view the list of matches, press **Options**, scroll to **Matches**, then press the roller.

If there is no matching word, press **Insert** to enter the traditional text input. See "Adding a new word to the dictionary".

Inserting numbers

To enter a number, press and hold the desired number key. The phone inserts the number and enters the **Insert number** query. Key in the desired numbers using the traditional text input, then press OK to add the numbers to the message you are writing and to return to the predictive text input.

Tip: You can also enter the insert number query by pressing and holding <pound>.

Inserting punctuation symbols and special characters

Press 1 to add a punctuation symbol. The phone tries to predict the correct symbol. To change the symbol (when the symbol is highlighted), press <asterisk> repeatedly until the desired symbol appears.

To insert another symbol or special character, press and hold <asterisk> to enter the list of special characters. Then scroll to the character you want to use and press OK.

Deleting characters and words

Press **Clear** to delete the character to the left of the cursor.

To delete the highlighted word, press <pound> first and then press **Clear**. When the cursor is between two words, press <pound> first and then press **Clear** to delete the preceding word.

Changing character case

Press <pound> once to change the character case (when the cursor is next to a word or within a word).

Adding a new word to the dictionary

If you try to write a word that does not exist in the dictionary, the phone prompts you to enter the traditional text input.

1 Press **Insert** to enter the traditional text input.

Tip: You can also enter the traditional text input in order to insert or edit a word by selecting the option **Insert/edit word**.

Tip: You can also enter the traditional text input by pressing <pound> once after a space. Note that if you press <pound> when next to a word or when within a word, the character case is changed.

2 Enter the word as described in "Using number keys to enter letters & numbers" and press **OK**.

The word is added to the dictionary and to the message you are writing, and you return to the predictive text input.

You can add hundreds of words to the dictionary depending on the language used and the lengths of words added to the dictionary.

Note: The words not included in the dictionary and which you accept (even accidentally) while in the predictive text input by pressing the **roller**, by pressing 0, or by deleting space between two words (thus forming a compound word), will automatically be saved in the dictionary.

Note: When the dictionary becomes full, the most recently added word will replace the oldest word you have previously added to the dictionary.

Writing compound words

Instead of writing the whole compound word at once, you can write its first part, press the roller to accept it, and write the second part.

Tip: You can also accept the first part of the compound word by first adding a space (by pressing 0) and then removing the space by pressing **Clear** once.

Saving several numbers with a name

The phone's internal phone book allows you to store multiple phone numbers per name, as well as an e-mail address, street address, and text notes. You can store up to 15 numbers per name. The first number saved under a name is automatically set as the default number for the name.

Picture

Tip: When you press and hold **Roller** at a highlighted name, the phone will make a call to the default number.

To add a new number to a name:

- 1 Press the right selection key twice to enter the names list.

- 2 Scroll to the desired name, press **Options**, scroll to **Add number**, and press **Roller**.
- 3 Scroll to one of the number types and press **Roller** to select it.
The number types available are: **Standard**, **Fax**, **Mobile**, **Office**. You can later change the number type by using the **Change Type** option in the option list.
- 4 Enter the number and press **OK** to save it.

To change the default number:

- 1 Once in the names list, scroll to the desired name and press **Roller**.
- 2 Scroll to the number you want to set as the default number, press **Options** and scroll to **Make Default** and press **Roller**.

To add a text item to a name:

- 1 Once in the names list, scroll to the desired name, press **Options** and scroll to **Add text** and press **Roller**.
- 2 Scroll to one of the text types and press **Roller** to select it.
The text types available are: **Email**, **Postal address**, **Note**.
- 3 Enter the text (for example, an e-mail address) at **Add text :** and press **OK** to save it.

- ## Searching & calling from phone book

Searching for a name & phone number

- 1 Press **Names**, scroll to **Search** and press **Roller**. Picture
- 2 Enter the first character(s) of the desired name and press **OK**. Then scroll to the desired name and press **Roller**.


If there is more than one number saved under a name, scroll to the desired number.


- 3 Press **Roller** to view the details of the highlighted name.

Quick Find: Press the right selection key twice (in standby mode) to access the **Names List**. Enter the first character(s) of the desired name and scroll to the desired name.

Making a call from the phone book


Making a call from the phone book can come in handy when you want to make a call with the slide closed.

- 1 Press **Names**, scroll to **Search** and press **Roller**.
- 2 Enter the first letter(s) of the name and press **OK**. Then scroll to the desired name.
- 3 Press  to call the highlighted name.

Tip: Pressing and holding **Roller** at a highlighted name makes a call to the default number, if there is more than one number saved under the name. To make a call to a number other than the default number, scroll to the desired number and press  or **Roller**.

Calling service numbers

Using this function you can easily call any of the service numbers your service provider may have saved in your SIM card. This function is not displayed if there are no service numbers saved in your SIM card.

- 1 Press **Names**, press **Options**, scroll to **Service Nos**, and press **Roller**.
- 2 Scroll to a desired service number, then press  to call the number.

- ## 1-touch dialing

Assigning a 1-touch dialing number

The first nine phone numbers saved in phone book are automatically saved as 1-touch dialing numbers and can be dialed using the number keys 1 - 9. If you want to assign another number to one of the number keys, do the following:

- 1 Press **Names**.
- 2 Press **Options**, scroll to **1-touch dialing** and press **Roller**.
- 3 Scroll to the desired number key (**Key 1** to **Key 9**), and press **Assign** or **Options**.


(If no phone number is assigned to a key or when the phone has automatically assigned a phone number to a number key, **Assign** is shown. If a phone number is already assigned to key, the phone number (name) and **Options** are shown.)

- 4 Scroll to the desired name and press **OK**. If more than one number is saved under the name, scroll through the numbers and press **OK** to select the highlighted number.

After assigning a phone number to a number key, you can view the number, change or erase it by pressing **Options**.

Calling using 1-touch dialing

When a phone number is assigned to one of the number keys (1 to 9), you can call the phone number in either of the following ways:

- Press the corresponding number key (1 to 9) and press .
- If the menu function 1-touch dialing is turned on, press and hold the corresponding number key until the call is started.

Note: Pressing and holding  dials your voice mailbox number.

• Voice dialing

<this section TBD>

• Organizing the phone book

Editing a name & number

- 1 Once you have recalled the name or number you want to edit, press **Options**.
- 2 Press **Roller** at **Edit**.
- 3 Edit the name and press **OK** and/or edit the number and press **OK**.

Tip: If you have saved multiple phone numbers per name, you can use the option **Edit number** to edit one of the numbers, **Edit e-mail** to edit the e-mail address, or **Edit note** to edit the textual note (for example, home address) you have saved under a name.

Erasing a name & number

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

To erase a name and number

- 1 Once you have recalled the name and number you want to erase, press **Options**.
- 2 At the **Erase name** prompt, press **Roller**.

Note: If you have saved multiple numbers with a name, the option **Erase name** deletes the name and all the numbers saved under it.

Tip: If you have saved multiple numbers with name, you can use the option **Erase number** to delete one of the numbers, **Erase e-mail** to delete the e-mail address, or **Erase note** to delete the textual note (for example, home address) you have saved under a name.

To erase all names and numbers

- 1 Press **Names** (in standby mode).
- 2 Press **Options**, scroll to **Erase all?** and press **OK**.
- 3 Scroll to the phone book you want to erase (**SIM card** or **Phone**) and press **OK**.
- 4 At the **Are you sure?** prompt, press **OK**, enter your security code, then press **OK**.

Copying names & numbers

You can copy names and phone numbers from the phone's memory to your SIM card's memory or vice versa.

- 1 Press **Names**.
 - 2 Press **Options**, scroll to **Copy** and press **Roller**.
 - 3 Scroll to the desired copying direction (**From phone to SIM card** or **From SIM card to phone**) and press **Roller**.
 - 4 Scroll to **One by one** or **Copy all** and press **Roller**.
- Then select whether you want to keep the original names and numbers.

- 5 If you selected **Copy all**, press **OK** at **Start copying?**. If you selected **One by one**, scroll to the name you want to copy and press **Copy**.

Copying & printing via IR

Copying or printing a name & number from your phone

Using your phone's infrared (IR) port, you can copy names and phone numbers to a compatible phone or PC which is running an appropriate application. You can also print names and phone numbers saved in your phone's phone book via a compatible printer.

- 1 Recall the name and phone number to be copied.
Make sure that the other phone is set to receive data via its IR port.
- 2 Once you have recalled the desired name and number from the phone book, press **Options**, scroll to **Send via IR** (to copy the name & number) or **Print via IR** (to print the name & number) and press **Roller**.

Copying a name & phone number to your phone

To copy names and phone number from another compatible phone, you need to first set your phone to receive data through its IR port using the Infrared menu (Menu 11).

Then, the user of the other phone sends you a name & number as described above.

Once you have received the name and phone number, press **Show**. Then press **Options**, select **Save or Discard**, and press **OK**.

Caller groups

You can set the phone to sound a specific ringing tone and flash a graphic (picture) on the display when you receive a call from a particular name & phone number. To do this, first include the name & number in the desired caller group. Then, select a ringing tone and graphic for this group.

Note: You can set the phone to ring only upon calls from names & numbers that belong to a specific caller group. See "Profiles" on page 28.

Adding a name & phone number to a caller group

- 1 Once you have recalled the desired name and number from the phone book, press **Options**.
- 2 Scroll to **Caller groups**, and press **Roller**.
- 3 Scroll to the desired caller group, for example **Family**, and press **Roller**.

Setting a ringing tone & graphic for a caller group

- 1 Press **Names**.
- 2 Scroll to **Caller groups** and press **Roller**.
- 3 Scroll to one of the caller groups and press **Roller**.
- 4 Scroll to one of the following functions and press **Roller**.

Rename group

Enter the new name for the caller group 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 via IR**, **Send graphic** (send via SMS), and press **OK**.

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

You can also download a new graphic to your phone via the IR port. See "Infrared" on page 77 for information about receiving data via IR. After you have downloaded a graphic, scroll to **View graphic** or **Save graphic** and press **OK**. If you selected **Save graphic**, reach the desired caller group and press **OK**.

Memory status

You can check what percentage of the phone's internal memory or SIM card's memory is in use and how much memory is still unoccupied.

- 1 Press **N**ames.
- 2 Press **O**ptions scroll to **O**ptions and press **R**oller.
- 3 Scroll to **M**emory status and press **R**oller.

The phone now displays the status of the phone's internal memory. To view the status of the SIM card memory, scroll downwards.

7. Text messages

Within the **Messages** menu (Menu 1) you can read, write and send text (SMS) messages to another phone or, for example, to an e-mail address or fax if supported by your network. You may need to subscribe to the text message (SMS) service first.

Note: Before you can send any text messages, you need to store your message center number with the **Message center number** option under **Message settings** in the **Messages** menu. Contact your service provider for the message center number.

- **Reading text messages**

When you have received a text message, the  indicator and the number of new messages followed by **Message(s) received** will appear on the display.

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

To read an unread message later:

Once in the **Messages** menu, scroll to the desired message and press **Roller** to read it.

To re-read a message:

Once in the **Messages** menu, press **Roller** at **Inbox**. Scroll to the desired message and press **Read** (or **Roller**) to read it.



2 While reading the message, press **Options** to scroll the list of options and press **Roller** at the highlighted option to select it.


The option list includes options for erasing, replying, forwarding, moving, editing and renaming the message you are reading. You can also copy the message to your phone's calendar as a reminder note

(Copy to Calendar) or you can send or print it via IR. The **Detail** option shows you, for example, the sender's name & phone number, message center used for sending, and reception date and time.

For forwarding the message to a distribution list or, for example, to a fax, see "Special sending options" on page 52.

Note:

 in front of the header means that the message has not yet been read.
 in front of the header indicates a delivery report.

When  blinks there is no more space for new text messages. You can read some of the unread messages when they will be moved to **Inbox** folder and automatically deleted, or if you have saved messages in the **Archive** folder or folders you have created, erase some messages from the folders.

Replying to a text message

- 1 While viewing a message that you want to reply to, press **Options**, scroll to **Reply** and press **Roller**.
- 2 Scroll to one of the following reply types and press **Roller**.
 - Blank** (Gives you empty text buffer.)
 - Original** (Original message is included in the reply message.)
 - Standard answer**, for example **Yes** (Only the selected standard answer is included in the reply message; you can't edit the answer or add any additional text).
 - Template** (The selected template is included in the beginning of the reply message. The template text can be modified and additional text can be added).
- 3 If you selected **Templates**, the list of templates is displayed. Scroll to the desired template and press **OK**.

- 4 Write your reply message and press **Options**, scroll to **Send** and press **OK**. Press **OK** again to send the message to the displayed number.

For sending the reply message to a distribution list or, for example, to a fax, see “Special sending options” on page 52.

Standard answers & templates

Your phone offers you a list of standard answers and templates which you can use in creating and replying to text messages.

The list of default templates can be found in the **Templates** folder of the **Messages** menu.

• Writing & sending text messages

Within the **Messages** menu you can write and send text messages or save your own messages in the **Outbox** folder for later use.

Writing & sending a text message

- 1 Once in the **Messages** menu, press **Options**, scroll to **Write Message** and press **OK**.
- 2 Enter your message. For information about entering text, see “Entering letters & numbers” on page 35.

Tip: If you want to use one of the standard templates, press **Options**, scroll to **Insert template** and press **Roller**. Then scroll to the template you want to use and press **OK**.

- 3 To send the message, press **Options**, scroll to **Send** and press **OK**. Then enter the phone number (or recall it from the phone book) and press **OK** to send the message.

The option list includes options for sending, saving, or erasing the message you are writing.

For information about sending the message to distribution lists or, for example, to a fax, see "Special sending options" on page 52.

To view the messages saved in the Outbox:

- 1 Once in the `Messages` menu, scroll to `Outbox` and press **Roller**.
- 2 Scroll to the desired message and press **Roller** to view it.

The option list under **Options** include same options as the option list for reading the messages, except **Reply**.

Special sending options

Sending a text message to a distribution list

When sending a reply message or when writing and sending a message, you can send the message to multiple recipients by using distribution lists. To send a reply message to a distribution list, use the `Forward Multi` option under `Forward Options`. To send an original message to a distribution list, use `Send Multi` under `Send Options`.

- 1 When you select `Forward Multi` or `Send Multi` and you haven't yet defined any distribution lists, press **Roller** to add a new distribution list.
- 2 Mark the number you want to include in the distribution list and press **Roller**. Scroll to the next number you want to add to the list and press **Roller**. When you have marked all the names you want to add to the list, press **Done**.
- 3 Enter the name for the distribution list and press **OK**.
- 4 When the name of the new distribution list is highlighted, press **Options**, scroll to `Select List` and press **OK**.

The options list gives you the following options: `Add New List`, `View List`, `Edit List`, `Rename List`, `Erase List` and `Select List`.

Sending a text message as a fax

You can also send or forward a text message as a fax (for example, to your office fax machine) by using the **Send Special** option under **Send Options** or the **Forward Special** option under **Forward Options**, if supported by your network.

In order to send a text message to a fax, you need to define one special set for fax transmissions in the message settings.

Then when you select **Send Special** or **Forward Special**, you select this predefined set and press **Roller**. Then you enter the fax number and press **OK**. See "Message settings" on page 55.

Sending & printing text messages via IR

Using your phone's infrared (IR) port, you can send text messages to a compatible phone or PC which is running an appropriate application. You can also print text messages on a compatible printer.

- Once in the message you want to send or print via IR, press **Options**, scroll to **Send via IR** or **Print via IR** and press **Roller**.

Note: When sending the message via IR to a compatible phone, make sure that the other phone is set to receive data via its IR port.

• Organizing your text messages

Message folders

All the text messages saved in your phone's message memory are organized in folders.

Inbox and Outbox folders

After you have read an incoming text message, the phone stores the message in the **Inbox** folder of the **Messages** menu. When you save a message you have written and/or sent, the phone stores the message in the **Outbox** folder.

When the message memory is full and you receive or write new messages, the phone automatically overwrites the oldest messages saved in the **Inbox** and **Outbox** folders.

Archive folder and user-created folders

If you want to make sure that certain messages will not be overwritten when the message memory becomes full, or if you want to further organize your messages, you can move some of your messages to the **Archive** folder. You can also add new folders under the **Messages** menu and store some of your messages there.

Adding or deleting a folder

Once in the **Messages** menu, press **Options**, scroll to **Add new folder** and press **Roller**. Enter the name of the new folder and press **OK**.

If you want to delete a folder you have added, scroll to the option **Delete folder** and press **Roller**. Note that when you delete a folder, all the messages contained in that folder will also be deleted.

Moving a text message

Once in the desired message folder (for example, **Inbox**), press **Options**, scroll to **Move** and press **Roller**. Scroll to the selected folder name and press **OK**.

Erasing a text message

- 1 Once in the **Messages** menu, scroll to the folder where you want to erase one or more messages and press **Roller**.

- 2 Scroll to the message you want to erase, press **Options**, scroll to **Erase** and press **OK**.

- **Message settings**

Once in the **Messages** menu, you can access the message settings menu by first pressing **Options** and then selecting the option **Message settings**.

There are two kinds of message settings in your phone: set-specific settings and settings common to all text messages.

A set is a group of settings needed for sending text messages. The phone uses the first message set (for example, SMS) as a default if no other set is selected when sending a message. When you reply to a text message and select **Send** or when you write a text message and select **Send**, the phone automatically uses the first message set. The options **Message center number**, **Messages sent as** and **Message validity** under **Message settings** apply to the first message set.

You also can, for example, send a text message to a fax or to an e-mail address (if supported by your service provider) if you have defined a set with proper settings for fax or e-mail transmissions. See “Special sending options” on page 52.

Settings common to all text messages

The following message settings under the **Message settings** menu are common to all outgoing text messages, regardless of the selected set.

Delivery reports

You can request the network to send delivery reports about your text messages (network service).

Reply via own center

This network service allows the recipient of your text message to send you a reply message via your text message center.

Special sets¹

Within the `Special sets` submenu of `Message Settings` you can change the settings of a particular set (for example, SMS, Fax, etc.)². Each of the sets has its own submenu with the following functions:

`Message center number`

The phone number of the message center needed for sending text messages.

`Messages sent as`

For normal text messages, select the option `Text?`; for fax transmission, select the option `Fax`; etc. Note that you can only use the options `Fax`, `Email` and `Page` if your messaging service offers the facility to convert the text messages into these alternate formats. Contact your service provider regarding the availability of this function.

`Message validity`

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

`Default recipient`

The default number for any text message sending.

`Rename this set`

Allows you to rename the set to your liking.

1. The `Special sets` menu is only displayed if your SIM card supports more than one set. Each set appears in its own submenu and may have any name.

2. The number of sets depends on how many sets your SIM card supports.

8. Your personal assistant

Did you know that your phone can wake you up in the morning, remind you of meetings, birthdays, and tasks, display the current time, calculate your tip at dinner, and convert currencies? Your phone has a calendar, to-do list, clock, alarm clock, calendar, and phone book—everything you need in a personal digital assistant. Read on to find out more.

- **Calendar**

You can use the phone's calendar to keep track of reminders, phone calls, meetings and birthdays. You can set the calendar to sound an alarm when it's time for you to make a call or to go to a meeting.

Menu

Calendar

WeeksExit

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.

Calendar views

Day list

Press **Menu**, scroll to **Calendar**, and press **Roller** to access the day list.

Picture of
Day List

Day list allows you to scroll through the days day by day. For each day, the day list shows the date and the icon for each note type you have set for the day. See "Adding a calendar note" on page 59.

Tip: Pressing **weeks** enters the week list. The week list allows you to scroll your calendar week by week. You can also access the week list by pressing **Options**, rolling to **weeks**, and pressing **OK**.

Picture of
Week View

Tip: In the day list and week list, you can quickly jump to a certain date by entering the date by using the number keys. For example, if today is the 9th and you enter 3, the phone jumps to the 3rd day of the following month.

Day view

Once in the day list, scroll to the desired day and press **Roller** to access the day view.

Picture of
Day View

Day view allows you to scroll through the notes made for the selected day.

Note view

Once in the day view, scroll to the desired note and press **Roller** to enter the selected note.

Picture of
Note View

Note view allows you to view the details of the selected note.

The option list for all calendar views includes options for making a note, sending a note via SMS or IR, and printing a note via IR. There are also options for jumping to another day or to the **To-Do List**.

The option list for day view and note view also includes options for erasing, editing and moving a note. For the Meeting, Call and Day note types, there is also an option for copying the note to another day and for repeating the note (every day, every week, biweekly or every year).

The **Settings** option allows you to set the date, time, date format, time format and week format for the calendar. The option **Erase old notes** allows you to set the phone to automatically delete old notes after a specified period of time. However, repeat notes (for example, birthday notes) will not be deleted.

Tip: When you are in the day list, day view or week list, you can quickly go to today's day view by pressing .

Adding a calendar note

- 1 Once in the Calendar, press **Options**, scroll to **Make Note** and press **Roller**.
- 2 Then press **Options**, scroll to one of the following note types and press **Roller**. For information about entering letters and numbers, see page 35.

Meeting

Enter the note and the date and press **OK**. Repeat this with the time.

Call

Enter the desired phone number (or recall it from phone book) and the date and press **OK**. Repeat this with the time.

Birthday


Enter the person's name, date of birth and year of birth (optional) and press **OK**. If you enter the year of birth, the note shows the person's age after the name.

Day note



Enter the note and the date and press **OK**.

- 3 Scroll to the desired alarm option and press **Roller**. If you select the **Custom time**, enter the alarm time and press **OK**.

Picture of
To-Do List

The presence of a tone alert is indicated by  when you view the notes.

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 . To stop the alarm, press **Exit** or .

• To-Do list

Use this feature to create a to-do list and prioritize tasks.

Picture of
To-Do List

Add a task:

- 1 Press **Menu**, scroll to **To-Do List** and press **Roller**.
- 2 Press **Options**, select **Add** and press **OK**.
- 3 Enter the note and press **OK**. For entering letter and numbers, see page 35.
- 4 Then scroll to the desired note priority (1, 2 or 3) and press **OK**. You can change the priority later by using the option **Change Priority**.

View tasks

Once in the **To-Do List**, scroll to a desired note and press **Roller** to view the details of the highlighted To-Do note.

Picture of
Note View

The option list includes options for adding, erasing and editing the note. There are also options for jumping to the **Calendar** and copying the note to the calendar as a day note. There are also options for sending the note (via SMS or IR) or printing the note (via IR).

• Clock

Your phone has a clock. Within the **CLock** menu (4-1-2) you can set the phone to show or hide the clock; set the time; and choose whether the clock uses 12-hour or 24-hour format.

idle mode
with clock


When the phone is set to show the clock, the current time is always shown in the top right of the display, except when you are in the phone book or menu functions.

The clock is used by the following phone functions: Messages (Menu 1), Call log (Menu 2), Alarm clock (Menu 4-1-1) and Calendar (Menu 8).

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

• Alarm clock

With the **Alarm clock** (Menu 4-1-1), you can set the phone to alarm at a specified time.

The alarm clock uses the time format set for the phone clock: 12-hour or 24-hour format. In standby mode, the  indicator shows that the alarm is set to on. You can switch the phone off and the alarm clock will still work.

When the alarm time expires

The phone sounds an alert tone (unless **Incoming Call Alert** is set to **Silent** or **Beep once**), the text **ALARM!** is shown, and the phone's lights flash.

If you let the phone alarm for a minute or if you press any other key, the alarm stops for a few minutes and resumes thereafter. You can end this snoozing by pressing **Stop** or switching off the phone.

If the alarm time expires while the phone is switched off, the phone switches itself on and starts alarming. If you press **Stop**, the phone asks whether you want to activate the phone for calls. Press **Yes** to register or **No** to switch off the phone.

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

• Calculator

You can use your phone's calculator to add, subtract, multiply or divide numbers and convert currencies.

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.

Using the calculator

- 1 Press **Menu**, scroll to **Calculator**, and press **Roller**.
- 2 "0" appears on the screen. Enter the first number in the calculation (press $\frac{\#}{\Delta}$ for decimal point).
- 3 To add, press $\frac{+}{\Delta}$ once (+ appears); to subtract, press $\frac{-}{\Delta}$ twice (-); to multiply, press $\frac{*}{\Delta}$ three times (*); to divide, press $\frac{/}{\Delta}$ four times (/). To add a decimal point, press $\frac{\#}{\Delta}$.

Or: Press **Options**, scroll to **Add**, **Subtract**, **Multiply** or **Divide** and press **OK**.

- 4 Enter the second number. A subtotal is shown. Then repeat steps 3 and 4 as many times as necessary.
- 5 For a total, press **Equals** (or press **Options**, scroll to **Equals** and press **Roller**).
- 6 To start a new calculation, press **Clear**.

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

Using calculator for currency conversion

Setting the exchange rate

- 1 Once in the **Calculator** menu, press **Options**.
- 2 Scroll to **Set rate** and press **OK**.
- 3 Scroll to **Foreign units in domestic units** or **Domestic units in foreign units**, depending on how you wish to convert the currency, and press **OK**.
- 4 Enter the appropriate exchange rate and press **OK** (use the $\frac{\#}{\Delta}$ key for decimals). **Rate saved** is displayed.

Currency conversion

- 1 Once you have set the exchange rate, enter the amount to be converted (press **#.** for decimal point).
- 2 Press **Options** scroll to either **To domestic** or **To foreign**, and press **OK**.
The phone displays the converted amount.

Tip: If you selected **Foreign units in domestic units** while saving the exchange rate, select **To Domestic** and if you selected **Domestic units in foreign units** select **To foreign**.

- ## Contact manager

You can use your phone's internal phone book as a contact manager by saving a person's contact information (such as street address, e-mail address etc.) along with their name. See "Saving several numbers with a name" on page 40.

9. Games

Not only can you use your phone for communication but also for some serious fun. Your phone offers you three games to choose from.

- In Memory, you reveal pictures to find pairs in as few tries as possible.
- In Snake, you are to feed the snake with as many goodies as possible. The longer the snake's tail grows, the higher your score.
- In Logic, you are to find out a secret combination of figures.

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 start a new game:

- 1 Go to the Games menu, scroll to the desired game & press **Roller**.
- 2 In Memory or Logic, select option **New game**. In Snake, select **1-player** option.

Tip: Snake can also be played as a 2-player game via the IR port of your phone. Before starting the 2-player game, ensure that the IR ports of the two devices are pointing at each other. A 2-player game can be started in the following two ways: 1) both players start the same 2-player game on their phones or 2) the first player sets up the infrared connection by entering the **Activate IR** menu (Menu 13) and the second player starts the 2-player game in the normal way.

Use the option **Instructions** to learn how to play the game. With the option **Level** you can choose the difficulty level of the game.

In Snake you can pause the game by pressing either selection key and then resume a paused game with the option **Continue**. With the option **Top score** you can check the highest score in your phone.

10. Browser

The **Browser** menu (Menu 10) allows you access to WWW services supported by your network, such as news, weather reports, flight times, dictionaries, and so on. Within the **Browser** menu you can save addresses of WWW services as bookmarks and then you can use the services via the **Bookmarks** option.

Note that the content of each service depends on the content provider of that service. To use a service, follow the instructions provided by the content provider.

When you enter the **Browser** menu for the first time, the phone prompts you to enter the **Server number**, **Service number** and **Homepage URL** of a WWW service.

After you have saved the **Homepage URL**, the service is saved as a home service. You can quickly access the home service by pressing **Home** when entering the **Browser** menu.

To save a WWW service as a bookmark:

Once in the **Browser** menu, press **Roller** and scroll to **Settings**. After saving the server number and service number, the phone displays **Connect to the service? Press OK**.

While browsing the service, press **Options**, scroll to **Add bookmark**, and press **Roller**.

To enter a WWW service saved as a bookmark:

Once in the **Browser** menu, press **Roller** at **Bookmarks**, then press **Options**. When you see **Go to**, press **Roller** to activate the service.

11.Non-browser services

12.Settings

Within the `Settings` menu you can change a number of settings related to the phone's functions and security.

- **Call settings**

Anykey answer

When this feature is turned on, you can answer an incoming call by briefly pressing any key except **1** or **END**.

1-touch dialing

When 1-touch dialing is turned on, the names and phone numbers assigned to the keys 1 to 9 can be dialed by pressing and holding the corresponding number key. See "1-touch dialing" on page 43 and "Assigning a 1-touch dialing number" on page 43.

Automatic redial

When this feature is turned on, your phone will make up to ten attempts to connect the call after an unsuccessful call attempt.

Send own number

This network service allows you to set whether your phone number is hidden or displayed to the person you are calling. `Reset` resets the phone to the default setting, `On` or `Off`, that you have agreed upon with your service provider.

Call waiting

When this network service is activated, the network will notify you of a new incoming call while you have a call in progress. See “Call waiting” on page 23.


Line for outgoing calls

The SIM card may be used with two subscriber numbers (that is, two phone lines). This is a network service and the function is only available if your SIM card supports it.

Within this menu, you can select the desired line for making calls. However, calls on both lines can be answered no matter which line is selected.

If you select line 2 and have not subscribed to this network service, you will not be able to make calls. You can prevent this menu function from being used by selecting the option **Lock** from the option list.

Calling card

If you wish to use a calling card for long distance calls, you must first save your calling card information into your phone. Your phone can save information about  two calling cards.

Saving calling card information

- 1 Press **Menu 4-2-7**.
- 2 Scroll to the calling card you want to edit, then press **Options**.
- 3 Scroll to **Edit**, then press **OK**.
- 4 Enter your security code (see page 80), then press **OK**.

- 5 At **Dialing sequence**, press **Select**. Scroll to the dialing sequence your card uses, then press **Select**.

Dialing sequence	Use for cards that require you to:	Cards using this sequence
Access number + phone number + card number	Dial 1-800 access number, then phone number, then card number (+ PIN if required)	MCI, AT&T True Choice, Sprint Canada, Unitel
Access number + card number + phone number	Dial 1-800 access number, then card number (+ PIN if required), then phone number	networkMCI, WorldPhone MCI
Prefix + phone number + card number	Dial the prefix (any numbers that must precede the phone number) and phone number you want to dial, then card number (+ PIN if required)	GTE, PacBell, AT&T, Stentor

- 6 Enter access number (usually the 1-800 number listed on the back of the calling card), then press **OK**.
- 7 Enter your card number and/or PIN, then press **OK**. Your phone displays **Save changes?** Press **OK**.
- 8 Scroll to **Card name**, then press **Select**. Enter the card name using your phone's keypad, then press **OK**.

Note: This procedure might not work with all calling cards. Please look at the back of your calling card or contact your long distance company for more information.

Choosing a calling card to use

Use **Menu 4-2-7** to select a calling card to use. You will be required to enter your security code.

Making calling card calls

After you have saved your calling card information in your phone, you can make a call using your calling card.

- 1 Enter the phone number, including any prefix (such as 0 or 1) that your calling card may require when you make a calling card call. See your calling card for instructions.
- 2 Press and hold **TALK** for a few seconds until your phone displays **Card call**.
- 3 Your phone displays **wait for tone, then press OK**. Wait for the tone, then press OK.
- 4 Your phone displays **wait for tone, press OK again**. Wait for the tone again, then press OK.

Show call time and cost

When you subscribe to this network service and turn this feature on, the phone briefly displays the duration and cost of the last call.

Fax or data call

Within this menu, you can make a fax or data call. Before using this function you need to activate the IR port of your phone using Menu 11 or connect your phone to a compatible device (for example, fax).

Tip: The **Also voice** option allows you to switch from voice mode to data (or fax) mode during a call. To do this, press **Options**, select **Voice Mode** or **Data Mode** (or **Fax Mode**) and press **OK**.

• Phone settings


Language

You can select a language for the phone's display. If **Automatic** is selected, the language is chosen based on the current SIM card.

This setting also affects the time and date formats of the following functions: Alarm clock (Menu 4-1-1), Clock (Menu 4-1-2), Calendar (Menu 8).

Emergency Key 9

When this feature is on, the phone attempts to make an emergency call when you:

- press and hold the 9 key, or
- press 9, then press .

This feature is set to Off in new phones and will not work until you turn it on. Use Menu 4-3-2 to turn this feature on or off.

Note: When Keyguard is active, the only way to make an emergency call is to dial the emergency number, then press **Call**.

Important!

Official emergency numbers (for example, 911) vary by location. Only one number is dialed automatically by Emergency Key 9, and it might not be the proper number in all circumstances.

Welcome note

This menu allows you to set the message which is shown when the phone is switched on.

Network selection

The network can be selected automatically or manually.

In automatic mode the phone automatically selects one of the wireless networks available in your area.

In manual mode the phone will show a list of available networks and you can select the desired network if this network has a roaming agreement with your home network operator. Otherwise the text `No Access` is displayed and another network must be selected. The phone will stay in manual mode until the automatic mode is selected or another SIM card is inserted into the phone.

Roller function

Pressing **Roller** when the display is clear activates the Roller Menu. As a default, the Roller Menu allows you access to the list of names and numbers saved in phone book (`Names List`). Instead you can set the Roller Menu to allow you access to one of the following:

`Quick Menu` (allows you quick access to `Messages`, `Calendar`, `Profiles`, `Names List and Menu`), `1-touch dialing`, `Dialed calls`, and `Profiles`.

- ## Communication Settings

News & info service (Menu 1-6)

This network service allows you to receive messages on various topics (such as weather or traffic conditions) from your service provider. For available topics and relevant topic numbers, contact your service provider.

By turning this feature on, you will receive messages on the active topics. You can edit the topic list, and mark the topics active or inactive.

`Topic Index` retrieves a list of available topics from the network. By selecting `Topics`, you can `Add topic` in the topics list. Enter the topic number and name. You can also `Edit` or `Erase` the topic list.

Select **Language** to set the language for the messages. Only messages in the selected language are shown.

Listen to voice messages

When you enter this submenu, the phone automatically calls your voice mailbox at the phone number saved within Menu 1-5-n. Note that voice mail is a network service and you may need to subscribe to it first.

Tip: To quickly call your voice mailbox, press **1*** when the display is clear.

Tip: When **VM** is displayed, just press **Listen** to call your voice mailbox number.

Voice mailbox number

Within this submenu, you can store and edit your voice mailbox number. Voice mail is a network service. For more information, contact your service provider.

Service command editor

From this submenu you can send service requests (for example activation commands of network services) to your service provider. For more information, contact your service provider.

- ## Security settings

Your phone is equipped with a versatile security system to prevent unauthorized use of the phone or the SIM card. See "Security features" on page 79.

SIM card security

Within this menu you can set the phone to ask for the PIN code of your SIM card when the phone is switched on. You need the PIN code to set the request on.

Note: Some SIM cards do not allow the PIN code request to be turned off.

Call restrictions

This network service allows you to restrict making and receiving calls with your phone. For this function you need the restriction password.

Within this menu you can bar all outgoing calls (**Outgoing calls**), all calls to abroad when in home country (**International calls**), all international calls except to calls to home country when abroad (**International except to home country**), all incoming calls (**Incoming calls**), all incoming calls when abroad (**Incoming calls if abroad**) or you can cancel all call restrictions (**Cancel all restrictions**).

For each function (except **Cancel all restrictions**) you have the following options: **Activate**, **Cancel**, or **Status** (which shows the restricted call types).

Note: When calls are restricted, calls may be possible to certain emergency numbers in some networks (for example, 911 or other official emergency number).

Fixed dialing

You can restrict your outgoing calls to selected phone numbers, if this function is supported by your SIM card. To save and edit numbers on the list, you need the PIN2 code.

Note: When fixed dialing is set to on, calls may be possible to certain emergency numbers in some networks (for example, 911 or other official emergency number).

Security level

This menu allows you to turn on phone security to prevent unauthorized use of the phone. You need the security code to set the security level. See "Protecting the phone with security code" on page 80.

Note: When you change the security level, all the recent call lists are cleared.

Change access codes

With this menu you can change the access codes: security code, PIN code and PIN2 code. These codes may only include the characters 0 to 9. The phone prompts you to enter the current code and the new code. It also prompts you to verify the new code.

Note: Avoid using access codes similar to the emergency numbers, such as 911, to prevent accidental dialling of the emergency number.

13.SIM services

Your wireless service provider may provide additional services that are available in Menu 12 of your phone. Menu 12 appears only if supported by your service provider and SIM card. The name and contents of this menu depend entirely on the services available. **Any questions about service availability, rates, and instructions must be directed to the company that sold you your SIM card.**

You can set the phone to display confirmation messages sent between your phone and the network when you are using SIM services by pressing Menu 4-3-7 (Notifications on SIM update), and choosing **Shown**.

Note: Accessing these services may involve sending a text message (SMS) or making a phone call, for which you may be charged.

14. Infrared

Within the **Activate IR** menu (Menu 11) you can set your phone to send or receive data through its infrared (IR) port. To use an IR connection, the device with which you want to establish a connection must be IRDA compliant. The phone is a Class 1 Laser Product.

Note: The preferable distance between the two devices in infrared connection is three feet at most. There must be no obstructions between the two devices and the IR ports of the two devices have to be pointing at each other.

- **Sending & receiving data via IR**

Your phone has an internal data feature. No data suite or data card is needed to send or receive data.

You can receive or send data (such as text messages, ringing tones, phone book entries (business cards), calendar notes, To-Do notes) from/to a compatible phone or device (for example, computer) via the IR port of your phone.

You can also print such data on a compatible printer. See "Copying & printing via IR" on page 46 and "Sending & printing text messages via IR" on page 53.

To send or receive data via IR:




- 1 Ensure that the IR ports of the two devices are pointing at each other.
- 2 The IR port of the receiving device need to be activated for data reception via this menu.

- 3 The user of the sending device selects the desired IR function to start data transfer.

If data transfer is not started within 45 seconds after the activation of the IR port, the connection is cancelled and has to be started again.

Checking the status of an IR connection

The status of an IR connection is indicated by .

- When  is shown continuously, there is an IR connection between your phone and the other device.
- When  is not shown, no IR connection exists.
- When  blinks, your phone is trying to connect to the other device or the connection has been lost.

15. Security features

- **Keypad lock (Keyguard)**

With keypad lock (keyguard) you can temporarily lock your phone's keypad to prevent the keys from being accidentally pressed (for example, when the phone is in your pocket or in your purse).



To lock the keypad:

- Close the sliding cover and press **Lock Keys**.

 appears at the top of the display.

To unlock the keypad:

- Open the sliding cover.

If you want to lock the keys without closing the slide, press first **Menu** and then press  within three seconds. To unlock the keypad, press **Unlock** and then  within three seconds or press **OK**.

Note: Calls may be possible to the emergency number programmed into your phone (for example, 911 or other official emergency number).

- **Protecting the SIM card with PIN code**

You can protect your SIM card by setting the phone to ask for your PIN code every time the phone is switched on. To do this, you need to set the menu function **SIM card security** (menu 4-4-1) to **On**.

The PIN code is usually supplied with the SIM card. If not, contact your service provider. You can change your PIN code in the **Change Access Codes** menu (4-4-7).

Note: If you enter an incorrect PIN code three times in succession, the SIM card is blocked and you need to enter the PUK code to unblock the SIM card. See “Access codes” below.

- **Protecting the phone with security code**

You can protect your phone against unauthorized use with the security code. To do this, you need to set the menu function **Security level** (4-5-5) to **Phone** or **Memory**.

When set to **Phone**, the phone will ask for the security code whenever a new SIM card is inserted into the phone. When set to **Memory**, the security code is required to enter the phone's internal phone book.

Note: The security code is also required for using some functions, such as clearing the phone book.

The security code is usually supplied with the phone (on an identification sticker). If not, contact your local dealer. You can change your PIN code in the **Change Access Codes** menu (4-5-7).

Note: If you enter an incorrect security code five times in succession, the phone is blocked and will not accept the correct security code for next five minutes.

Tip: You can also restrict calls made from or to your phone if supported by your network. See **Call restrictions** (4-4-4) and **Fixed Dialing** (4-4-5) in the “Settings” chapter.

- **Access codes**

There are several access codes that can be used to protect your phone and SIM card against unauthorized use. Some of the access codes are also required for using some functions.

The access codes (except PUK and PUK2 codes) can be changed by using menu 4-4-7. See "Security settings" on page 73.

Security code (5 digits)

See "Protecting the phone with security code" on page 80.

PIN code (4 to 8 digits)

See "Protecting the SIM card with PIN code" on page 79.

PIN2 code (4 to 8 digits)

The PIN2 code, supplied with some SIM cards, is required to access some functions, such as call cost counters. These functions are only available if supported by your SIM card.

If you enter an incorrect PIN2 code three times in a succession, you cannot use the functions requiring PIN2 code unless you enter the PUK2 code.

PUK code (8 digits)

The PUK (Personal Unblocking Key) code is required to change a blocked PIN code. The PUK code may be supplied with the SIM card. If not, contact your local service provider for the code.

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

PUK2 code (8 digit)

The PUK2 code, supplied with some SIM cards, is required to change a blocked PIN2 code.

If you enter an incorrect PUK2 code ten times in succession, you cannot use the functions requiring PIN2 code. To use the functions, contact your service provider for a new card.

Restriction password

The restriction password is needed for using call restrictions (Menu 4-4-4). Contact your service provider for the password.

16. Optional analog module

With an optional Nokia PLUS analog module and a dual-mode SIM card, you can use your phone in analog networks. See your dealer for details on how to purchase this accessory, upgrade your SIM card, and activate your subscription.

Note that some features described in this manual will not be available when you use analog networks.

- **Attaching the analog module**

- 1 With the battery removed, place the analog module on the back of the phone.
- 2 Slide the module toward the top of the phone until it clicks into place.
- 3 Place the battery on top of the analog module.
- 4 Slide the battery toward the top of the phone until it clicks into place.

- **Removing the analog module**

- 1 With the battery removed, press the buttons at the top and bottom of the analog module.
- 2 Slide the module down and away from the top of the phone.

- **Analog mode indicator**

When the phone is using an analog network, it displays the **A+** icon in the top left corner and the word **Analog** in the top center of the display.

- **Analog system selection**

In each analog service area there are usually two service providers. The service provider you sign up with, also known as your home system, is of type A or B. Systems that are of the same type as your home system are called "home-type" systems; systems that are of the opposite type as your home system are called "non-home-type" systems.

Your service provider may have programmed a list of preferred systems into your SIM card. Your phone may search for systems in this list when service is not available in your home system.

The analog system selection feature allows you to request the order in which your phone looks for available systems.

Note: Using `Home only` or `Pref. system` is usually the most economical choice.

1 Press `Menu 4-5-2`.

2 Select one of the following choices:

`Pref. system` If service is not available in your home system, the phone searches for a preferred system (either home type or non-home type), then a home-type system, then a non-home-type system.

`Home type` If service is not available in your home system, the phone searches for a preferred system (home type only), then a home-type system.

`Nonhome type` The phone searches for a preferred system (non-home-type only), then a non-home-type system.

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

Roaming in analog networks

In some areas, the wireless system automatically recognizes roaming phones. In other areas, you need to contact the service provider before the system can recognize your phone. The operator needs to know your phone number, your phone's IMEI (electronic serial number), and how you plan to pay for your calls. There is normally an additional charge for roaming calls.

Your phone's IMEI is located on the back, under the battery. Your phone's IMEI can normally be read over the air by roaming wireless service providers when you call them to register your roaming presence on their wireless network.

- ### Change module code

Your analog module has a module code that is used with the module security feature described later in this chapter. The module code is initially set to 12345. To change the module code, press `Menu 4-4-7-5`. The phone prompts you for the existing code, the new code, and verification of the new code. At each prompt, enter the information and press `OK`.

- ### Digital/analog selection

You can choose which type of network you want your phone to use: `Analog only`, `Digital only`, or either (`Digit. & analog`). Press `Menu 4-5-1` and select one of the following choices:

`Digit. & analog` The phone will work in digital or analog networks. The phone chooses the best one for you.

`Digital only` The phone will work in GSM 1900 digital networks only.

`Analog only` The phone will work in analog networks only.

• Module security

If you purchased an optional analog module, you can protect it from unauthorized use by turning on module security. When module security is on, the phone requests the module code when you turn the phone on if (a) you have not changed the module code from the default of 12345, or (b) you have changed it **and** it differs from the security code.

- If you enter the correct code, the phone allows you to access analog module functions.
- If you enter an incorrect code, you can't access analog module functions.
- If you choose **skip**, the phone ignores menu items that pertain to the analog module and acts as if the analog module isn't attached.

Activating module security

Press Menu 4-4-3. At the Module code : prompt, enter the module code and press OK. Choose On or Off. Press OK.

17. Troubleshooting

Problem	Possible cause	Possible solution
My phone isn't charging.	Charger and phone are not properly connected	
	Charger is not properly plugged in	
My phone isn't making/answering calls.	Battery is not charged	Charge the battery.
	Poor signal strength	If you are indoors, move toward a window.
I can't listen to my voice messages.	You don't have voice mail service.	Call your wireless service provider.
	You have not set up your voice mailbox with your service provider.	Call your wireless service provider.
	You have not saved your voice mail number in your phone.	See page x.

Troubleshooting

Problem	Possible cause	Possible solution
	The voice mail number you have saved is incorrect.	Call your wireless service provider.
	You have forgotten your password or are entering it incorrectly.	Call your wireless service provider.
My SMS messages are not being delivered.	You don't have SMS service.	Call your wireless service provider.
	You have not saved your SMSC number in your phone.	See page x.
	The SMSC number you have saved is incorrect.	Call your wireless service provider.

18. Frequently Asked Questions (FAQ)

Q. How do I lock my phone?

A.

Q. How do I unlock my phone?

A.

Q. What is my lock code?

A.

Q. What is my security code?

A.

Q. How do I lock the keypad?

A.

Q. How do I unlock the keypad?

A.

Q. How do I make the ringing louder?

A.

Q. How do I change the ringing tone?

A.

Q. How do I download a custom ringing tone?

A.

Q. How do I find my phone's model number?

A.

Frequently Asked Questions (FAQ)

Q. How do I find my phone's ESN (electronic serial number)?

A.

Q. How can I force my phone into analog mode?

A.

Q. How can I change the contrast of my phone's display?

You can't.

Q. Can I use the infrared port as a TV remote or garage door opener?

If you can figure out how to do it, be our guest. Come to think of it—want a job?

Q. How do I clear my call timers?

A.

19.Glossary

analog module
analog network
antenna
antenna jack, external
battery
bookmark
browser
data call
digital network
earpiece
e-mail
END key
ESN
fax call
GSM 1900 a type of digital wireless network.
home system
Internet
keypad tones
message alert tone
microphone
non-home system
number keys

power key a key on the front of the phone that allows you to turn the phone on or off.

predictive text entry

preferred system

ringing option

ringing tone

ringing volume

roaming

roller a key on the front of the phone that you can roll up and down.

screen

scroll to move through a list of names, menu items, etc. by rolling the roller up or down.

selection keys

SIM card

slide

SMS short message service

SMSC short message service center

system wireless network.

TALK key

text message

URL

voice mail

voice mailbox

volume see earpiece volume or ringing volume.

volume buttons

warning and game tones

wireless network

World Wide Web

WWW see World Wide Web.

20. Reference information

- Using batteries & chargers

For charging and recharging your phone battery, see "Charge the battery" on page 7.

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

A new 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 stand-by 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, discharge the NiMH battery from time to time by leaving your phone switched on until it turns itself off (or by using the battery discharge facility of any approved accessory available for your phone). 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.

When the battery is running out of power and only few minutes of talk time remain, a warning tone is heard and **Battery low** is briefly displayed. When no more talk time is left, **Battery empty** is displayed and a warning tone is sounded and the phone switches itself off.

Use the battery only for its intended purpose.

Never use any charger or battery which is damaged or worn out.

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).

Batteries must be recycled or disposed of properly. Must not be disposed of in municipal waste.

Do not dispose of batteries in fire!

• Accessories & batteries

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



Warning! Use only batteries, chargers 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.

- **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 hand-held wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemaker:

- 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 digital 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 (for example, 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 (for example, medical emergencies).

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


To make an emergency call:

- 1 If the phone is not on, switch it on.

Some networks may require that a valid SIM card is properly inserted in the phone.

- 2 If the word **Clear** appears above right selection key, press and hold the selection key to clear the display.

Reference information

- 3 Enter the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
- 4 Press the  key.

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

• Care & Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil 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. Unauthorized antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.
- If the phone, battery, charger or any accessory are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

21. Technical information

Wireless networks:	GSM 1900 and AMPS 800
Transmitting power:	1 W nominal
Operating voltage:	3.6 V dc 12 V dc for car kit
Frequency band:	1850.2 to 1909.8 MHz (TX) 1930.2 to 1989.8 MHz (RX)
Number of channels:	512 to 810
Memory locations:	up to 250 in SIM card 1000 in phone
Memory capacity:	SIM card: depends on SIM phone:
Charging current:	
Operating temperature:	

22.Warranty

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