

# NOKIA 6800



## User Guide



**NOKIA**  
CONNECTING PEOPLE

# Nokia 6800

## User Guide

What information is needed?	Numbers	Where is the number?
<b>My number</b>		Wireless service provider
<b>Voice mail number</b>		Wireless service provider
<b>Wireless provider's number</b>		Wireless service provider
<b>Provider's customer care</b>		Wireless service provider
<b>Model number</b>		Label on back of phone (under battery). See "Find the phone's label" on page 17.
<b>Phone type</b>		Back of title page
<b>IMEI number</b>		Label on back of phone (under battery). See "Find the phone's label" on page 17.

The wireless phone described in this guide is approved for use in the 850 and 1900 GSM networks in North and South America.

## LEGAL INFORMATION

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US Patent No 5818437 and other pending patents.

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Includes RSA BSAFE cryptographic or security protocol software from RSA Security.



Java is a trademark of Sun Microsystems, Inc.

The information in this user guide was written for the Nokia 6800 phone. Nokia operates a policy of ongoing development. Nokia reserves the right to make changes and improvements to any of the products described in this document without prior notice.

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## EXPORT CONTROLS

This product contains commodities, technology or software exported from the United States in accordance with the Export Administration regulations. Diversion contrary to U.S. law is prohibited.

## FCC/INDUSTRY CANADA NOTICE

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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# 1 For your safety

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



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



## **ROAD SAFETY COMES FIRST**

Don't use a hand-held phone while driving.



## **INTERFERENCE**

All wireless phones may get interference, which could affect performance.



## **SWITCH OFF IN HOSPITALS**

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



## **SWITCH OFF IN AIRCRAFT**

Wireless devices can cause interference in aircraft.



## **SWITCH OFF WHEN REFUELLING**

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



## **SWITCH OFF NEAR BLASTING**

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



## **USE SENSIBLY**

Use only in the normal position. Don't touch the antenna unnecessarily.



## **QUALIFIED SERVICE**

Only qualified personnel may install or repair phone equipment.



## **OBSERVE INFRARED PRECAUTIONS**

Do not point the IR beam at anyone's eyes or allow it to interfere with other IR devices.





## ENHANCEMENTS AND BATTERIES

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



## WATER-RESISTANCE

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



## BACKUP COPIES

Remember to make backup copies of all important data.






## CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.





## CALLING

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. Press  as many times as needed (e.g. to exit a call, to exit a menu, etc.) to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.

## 2 An overview of functions

- **MESSAGING CONCEPT**

Your phone combines the functions of a normal mobile phone and a messaging device. With the flip closed, you can use all the functions of the phone like in any other mobile. By opening the flip of the phone, you will find an additional messaging keyboard that is especially designed for easy text writing. See "Writing text" on page 26.

- **MULTIMEDIA MESSAGING SERVICE (MMS)**

Your phone is able to send and receive multimedia messages made up of text and pictures. You may also be able to send and receive polyphonic ringing tones, and save pictures and ringing tones to personalize your phone. See "Multimedia messages" on page 34 for more information.

- **POLYPHONIC SOUND (MIDI)**

Polyphonic sounds are used in ringing tones, alarm clock tones and message alert tones. They consist of several sound components played at the same time, like an actual melody through a speaker. Your phone has sound components from over 40 instruments that can be used for polyphonic sounds but the phone can play four instruments simultaneously. The phone supports scalable polyphonic MIDI (SP-MIDI) format.

You can receive polyphonic ringing tones using multimedia service, (see "Reading and replying to a multimedia message" on page 37), or download them to the gallery menu, see "Gallery" on page 73 for more information.

- **GENERAL PACKET RADIO SERVICE (GPRS)**

GPRS technology allows mobile phones to send and receive data over a mobile network. Applications such as WAP, MMS and SMS messaging, and Java™ may use GPRS.

Your phone supports up to three simultaneous GPRS connections. For more information on GPRS, see "GPRS" on page 86. Also, consult the PC Connectivity Guide. The PC Connectivity guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of [www.nokia.com](http://www.nokia.com).

Contact your network operator or service provider for availability and subscription to the GPRS service. Also, save the GPRS settings for each of the applications used over GPRS. Your wireless provider may charge for GPRS services. For more information on pricing, contact your wireless provider.

- **SPEAKERPHONE**

You can use your phone as a speakerphone during a call. To activate the speakerphone, press **Loudsp**. To deactivate the speakerphone during a call, press **Handset**. The speakerphone deactivates when you end the call or when you connect a headset.

- **MIDP JAVA™ APPLICATIONS**

Your phone supports Java and includes some Java applications and games that have been specially designed for mobile phones. You may be able to download new applications and games to your phone from a PC with a Java installer software or from some mobile Internet services. See "Applications" on page 76 for more information.

- **FM RADIO**

Your phone has an integrated FM radio. You can listen to the radio through a headset, the music stand, or the handsfree speaker (headset must be attached). Also, you can use the radio as an alarm tone. See "Set the alarm tone" on page 65 and "Radio" on page 70 for more information.

- **OVER THE AIR (OTA) SETTINGS SERVICE**

In order to use WAP, MMS, GPRS and other wireless services, you need to have proper settings on your phone. You may receive the settings directly as an OTA message and you only need to save the settings on your phone. For more information on the availability of the settings, contact your network operator, service provider or the nearest authorized Nokia dealer.

- **SHARED MEMORY**

The following features in this phone may share memory: contacts, text and multimedia messages, images and ringing tones in gallery, calendar, to-do lists, notes application, IM chat sessions, Java games and applications, and e-mail. Using any such features may reduce the memory available for any features sharing memory. This is especially true with heavy use of any of the features, although some of the features may have a certain amount of memory specially allotted to them in addition to the amount of memory shared with other features. For example, saving many images, bookmarks, Java applications, or other features sharing memory may take all of the shared memory and your phone may display a message that the memory is full. In this case, delete some of the information or entries stored in the shared memory features before continuing.

## 3 Welcome and quick guide

Congratulations on your purchase of the Nokia 6800 mobile phone. Your phone provides many functions which are practical for daily use, such as a Calendar, Radio, Alarm clock, Calculator, Notepad and more. Your phone can also connect to a PC, laptop, or other device using the built-in IR port or data cable (sold separately). For more information on connectivity, refer to the Nokia 6800 PC Connectivity Guide. The PC Connectivity guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of [www.nokia.com/us](http://www.nokia.com/us).

### • GET THE MOST OUT OF THIS GUIDE

The tips that follow can help you get the most from this guide as you learn to use your phone.

### • LEARN TEXT CONVENTIONS

This user guide provides text clues to help make instructions clear and easy to follow. The following clues are called conventions:

- **Bold.** The word or phrase appears on the phone's display
- *Italics.* Indicates emphasis. Pay close attention to any information in italics

### Follow graphic clues

This guide uses certain icons to alert you to important information.



**Tip:** Indicates a shortcut or alternate method of doing something.



**Note:** Explains a feature or points out an important concept.



**Important:** Indicates critical information on using a feature.



**Warning:** Helps you avoid personal injury, damage to the phone, or property damage.

### Look for updates

From time to time, Nokia updates this guide to reflect changes. The latest version may be available at [www.nokia.com/us](http://www.nokia.com/us).

Also, an interactive tutorial may be available at [www.nokiahowto.com](http://www.nokiahowto.com).

- **LEARN ABOUT ACCESSIBILITY SOLUTIONS**

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. Nokia maintains an Internet site that is dedicated to accessibility solutions. For more information about phone features, enhancements, alternate format user guides, and other Nokia products designed with your needs in mind, visit the website at [www.nokiaaccessibility.com](http://www.nokiaaccessibility.com) or call 1-888-665-4228. This user guide is available in alternate formats, such as *braille*, *large print*, *audiocassette*, and *e-text* (documents on disk, in Microsoft Word or WordPerfect format).

- **UNDERSTAND WIRELESS NETWORK SERVICES**

The wireless phone described in this guide is approved for use on the GSM 850 and 1900 networks.

A number of features in this guide are called network services. These are special services that you arrange through your wireless service provider. Before you can take advantage of any of these network services, you must subscribe to them through your wireless provider and obtain instructions for their use from your service provider.

- **REGISTER YOUR PHONE**


Make sure to register your phone at [www.warranty.nokiausa.com](http://www.warranty.nokiausa.com) or 1-888-NOKIA-2U (1-888-665-4228) so that we can serve your needs better if you should need to call the center or have your phone repaired.

- **E-NEWSLETTERS**



When you register your phone, you can sign up for Nokia's e-newsletter Nokia Connections if you would like. You will receive tips and tricks on using your phone, enhancement information, and special offers.


## • UNDERSTAND YOUR PHONE


### With flip closed


**1 Power key**   
 Press and hold until the screen lights up, indicating the phone has switched on. Press and release to display a list of profiles. Also when the keypad is locked, press and release to turn on the phone's display lights for about 15 seconds.

**2 Volume key**  
 Adjusts the volume of the earpiece, the headset and the loudspeaker.

**3 Selection keys**  and   
 The function of the keys depends on the text shown on the display above the keys; for example **Menu** and **Contacts** in standby mode.

**4 Four-way joystick**   
 Enables scrolling through names, phone numbers, menus or settings. The four-way joystick also moves the cursor up, down, right, and left in text writing, calendar, and in some game applications.


**5 Talk key**  dials a phone number, and answers a call. In standby mode it shows the most recently called number.

**6 End key**  ends an active call, or exits from any function.

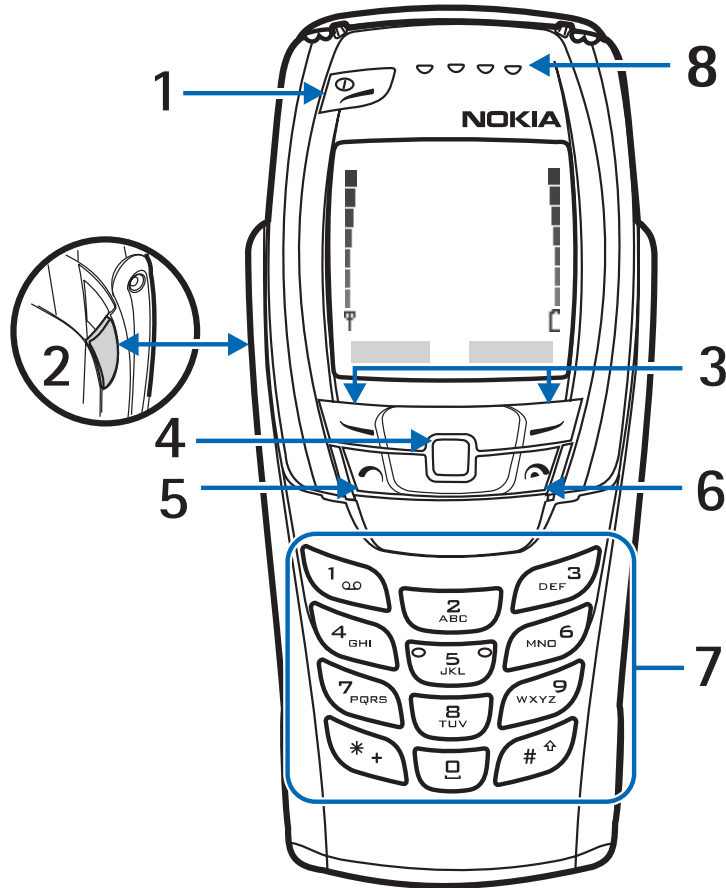
**7** Use the keypad to enter numbers and characters.

1 00 2 ABC 3 DEF 4 GHI 5 JKL MNO 6 7 PQRS 8 TUV WXYZ 9  



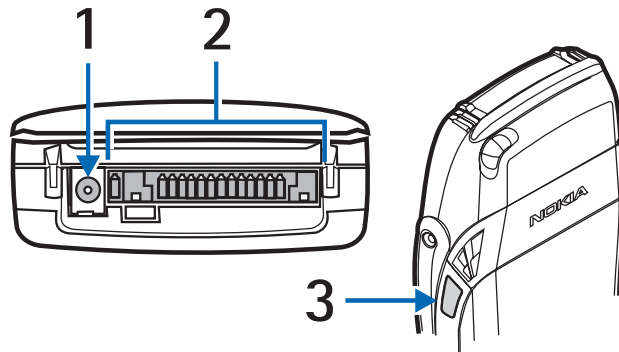
**Note:** On some models, this symbol () appears on the "0" key. See "Sign on to the wireless Internet" on page 89 for details.

**8 Earpiece.**



## Connectors

- 1 Charger connector
- 2 Pop-port™ connector
- 3 IR window



## Antenna

Flip closed



Flip open



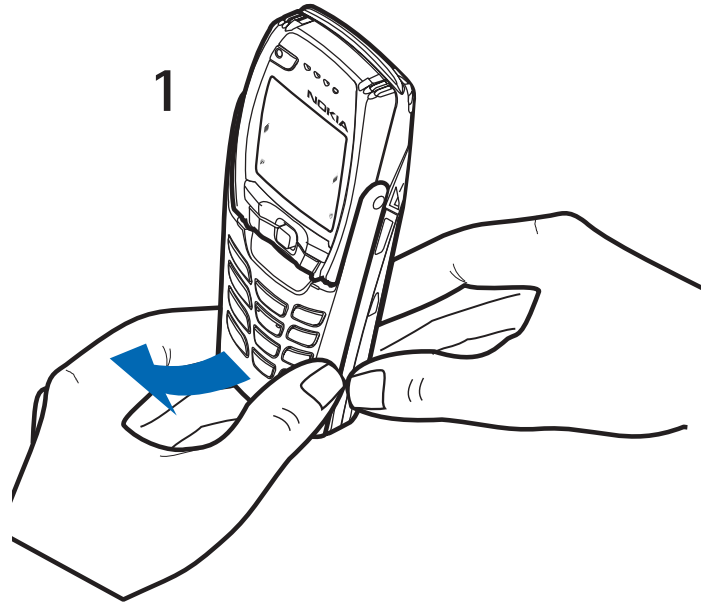
Your phone has a built-in antenna. As with any other radio transmitting device, avoid touching the antenna while the phone is powered up. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than necessary.

Hold the phone as shown below, with the antenna area pointed up.

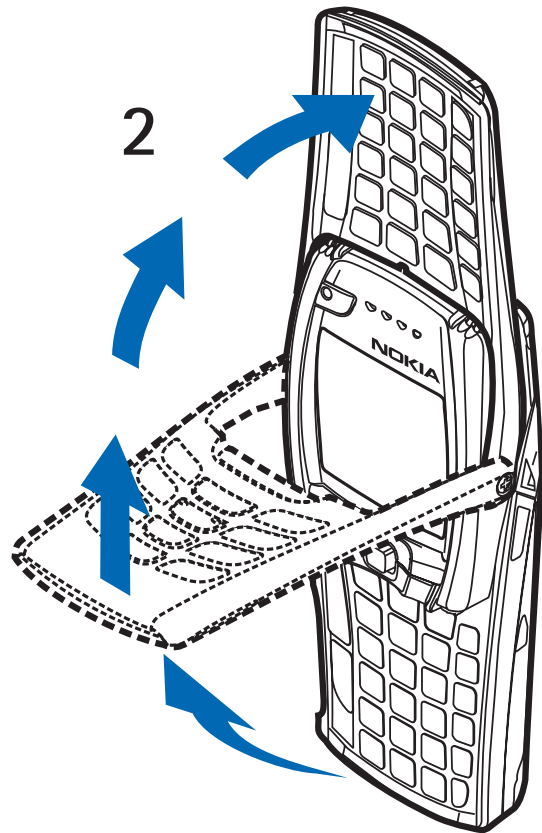


## Opening the flip

- 1 Hold the phone with both hands and open the flip as shown.



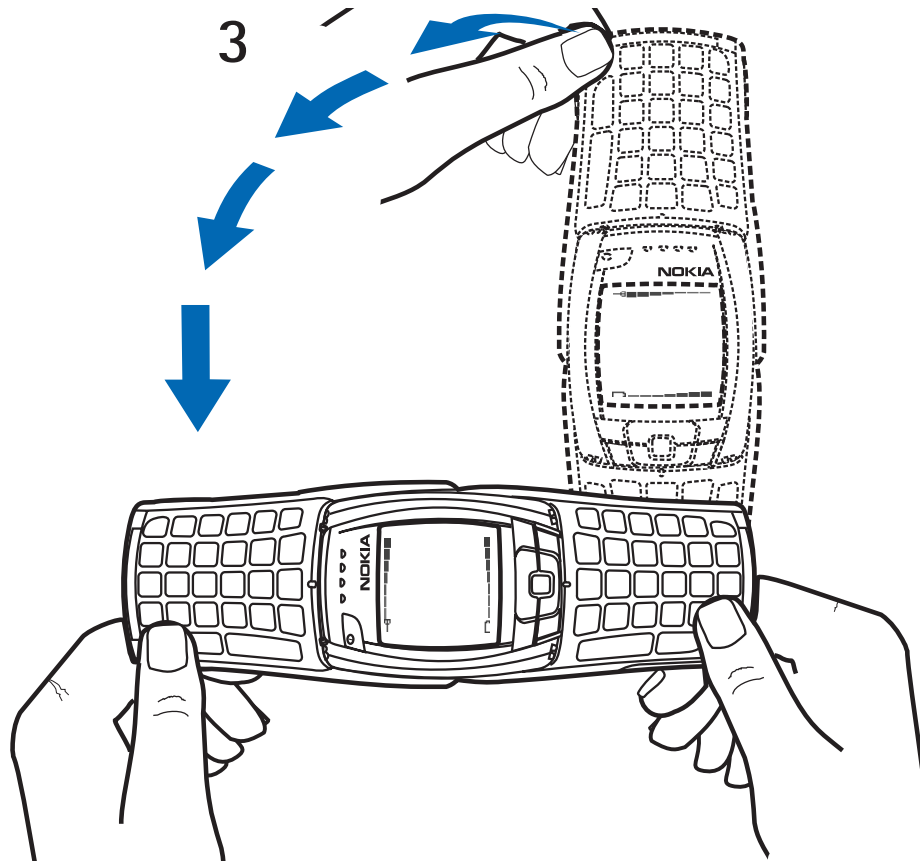
- 2 Turn the flip until you hear it click into place.



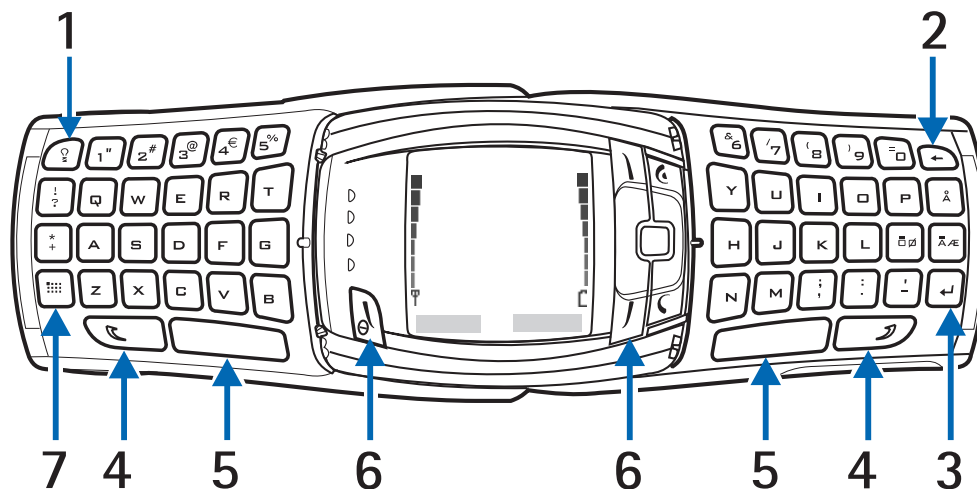
**Note:** When you close the cover, be careful not to pinch your fingers.




- 3 Turn the phone to horizontal position and hold it as shown in picture.







With flip open



- 1 Keyboard light key  switches the keyboard light on or off to provide additional lighting while using the keyboard.
- 2 Backspace  deletes characters.
- 3 Enter key  forces line feed in text editing.

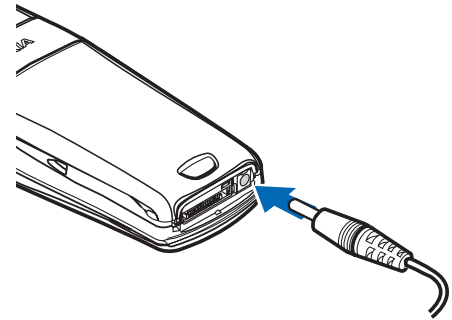
- 4 **Shift keys** enter upper case letters and symbols. You can either press the shift key first and then the desired key or press both keys at the same time.
- 5 **Space bar keys** enter a space.
- 6 The function of these keys depends on the text shown in the display next to the keys; for example, **Menu** or **Contacts** in standby mode. Press and hold  to switch on the phone.
- 7 **Character key**  opens a set of characters and symbols.

## Battery

### CHARGE THE BATTERY

- 1 Plug the charger into a standard ac outlet.
- 2 Insert the charger output plug into the round connector at the bottom end of the phone.

After a few seconds, the battery indicator in the display starts to scroll from bottom to top. If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or any calls can be made.



**Tip:** You can use the phone while the charger is connected.

### IMPORTANT BATTERY INFORMATION



**Important:** Your phone is powered by a rechargeable battery. The Nokia 6800 phone uses only the BLC-2 Li-Ion battery.

Use only batteries approved by Nokia and recharge your battery only with the chargers approved by Nokia. Never use any charger or battery which is damaged.

The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and standby time) is noticeably shorter than normal, it is time to buy a new battery.


### PROLONG THE BATTERY LIFE

Use the following guidelines to obtain the best performance from your battery:

- With your phone turned off, charge your new battery for three hours before its first use. Use the battery until it is fully discharged. Repeat this procedure twice for a total of three charging cycles.


- Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles. Battery operation time may be less than the estimated times during the first charges. This condition is normal.
- You can use your phone while the battery is charging. However, if the battery is completely empty, it may need to recharge a few minutes before you can make or receive calls or the battery indicator appears.
- After the first charge, you can make and receive calls during the charging cycle, but the calls interrupt the charge. When the phone call ends, the charge will resume.
- The bars on the screen stop scrolling and remain constant when the phone is fully charged. If you switch the phone on when charging is complete, the message **Battery full** momentarily appears in the display.

Charging time depends on the charger and the battery used. For example, charging a BLC-2 battery with the ACP-12 charger takes about 1 hour and 30 minutes in standby mode.

 **Important:** When the phone's battery is fully charged, be sure to disconnect the charger from the phone and the outlet.

## REMOVE THE BACK COVER

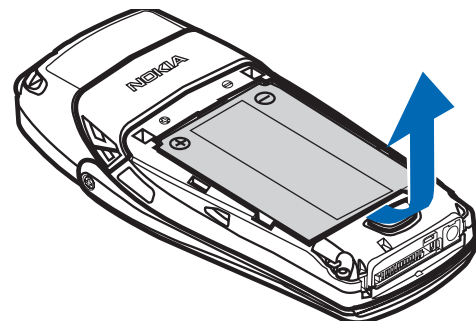
With the back of the phone facing you, push the back cover release button.

 **Note:** Before removing the cover, always switch off the power and disconnect the charger and any other device. Avoid touching electronic components while the cover is removed. Always store and use the device with the cover attached.



## REMOVE THE BATTERY

After you have removed the back cover, insert your finger into the finger grip and lift the battery from its compartment.



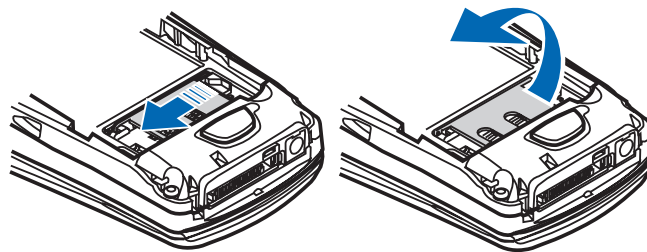
## Install the SIM card



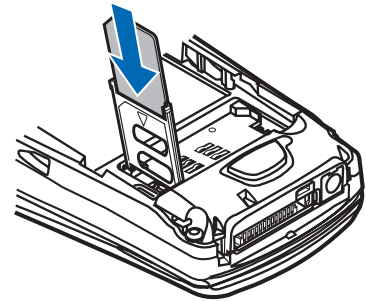
**Warning:** Keep all SIM cards out of reach of small children.

- 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 and that you have removed the cover and battery.

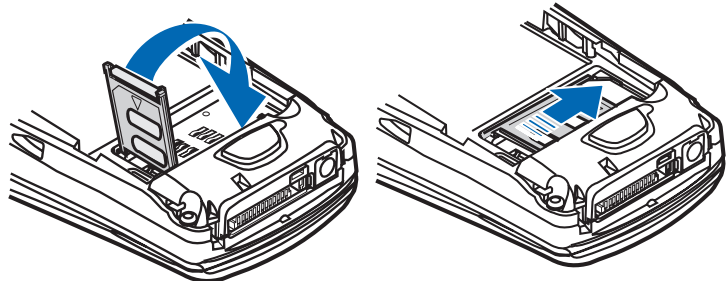
- 1 Slide the SIM card holder toward the left.



- 2 Swing the SIM card holder open.
- 3 Insert the SIM card into the holder, (beveled corner last) and the gold contacts facing toward the top end of the phone.



- 4 Close the SIM card holder and slide it back into place.

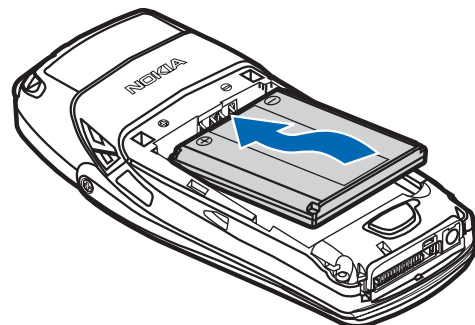


## REPLACE THE BATTERY



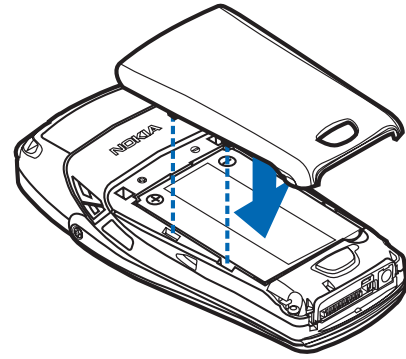
**Note:** The SIM card must be installed *before* installing the battery.

Position the battery so the gold contacts match up with those on the phone. The battery label should be facing *away* from the phone.

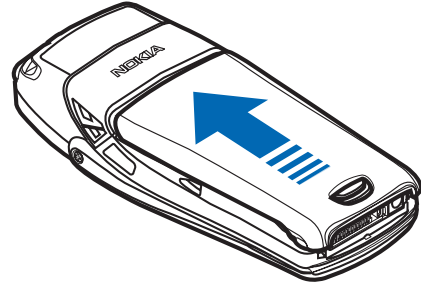


## REPLACE THE BACK COVER

- 1 Place the top of the back cover on the locking catches on the front in the top of the phone.



- 2 Slide the back cover until it locks into place.

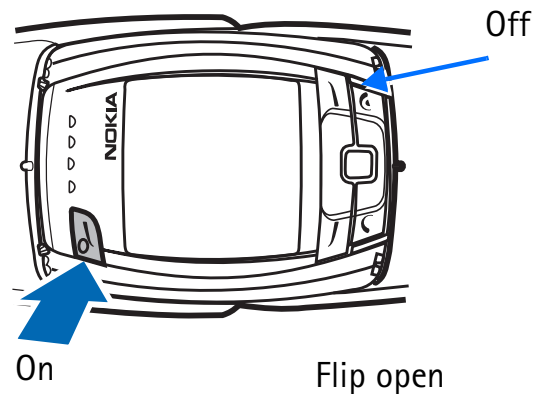
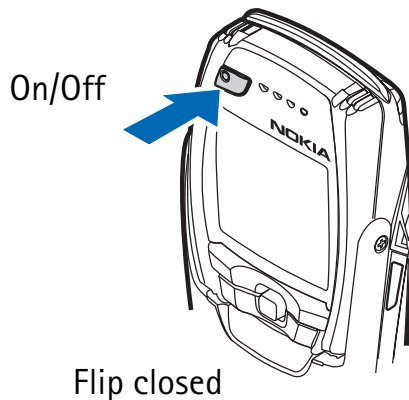



## • SWITCH YOUR PHONE ON OR OFF



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

To turn your phone on or off, press and hold the power key for at least 3 seconds.



**Note:** In the flip open mode, press  to turn off the phone.

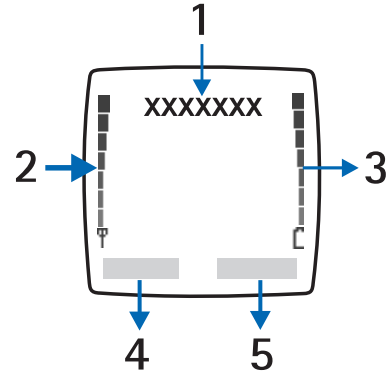
If the phone displays **Insert SIM card** even though the SIM card is properly inserted, or **SIM card not supported**, contact your wireless provider.

Enter the PIN code or security code if necessary and press **OK**.



## • CHECK THE START SCREEN

The start screen is "home base" and indicates your phone is in standby mode.

- 1 Indicates in which cellular network the phone is currently being used.
- 2 Shows the signal strength of the cellular network at your current location. The higher the bar, the stronger the signal.
- 3 Shows the battery charge level. A higher bar indicates more power in the battery.
- 4 The left selection key in standby mode is **Menu**.
- 5 The right selection key in standby mode is **Contacts** or **Go to**. If you press the right selection key when it is:
  - **Contacts** - you can access the **Contacts** menu.
  - **Go to** - you can access one of the features that is programmed as a personal shortcut in the **Go to** menu. (See "Personal shortcuts" on page 57 and "Go to" on page 106.)



## • GET STARTED WITH THE QUICK GUIDE

Messaging	
Check voice mail	Press and hold <b>1</b>  OR dial your voice mailbox number.
Write and send a text message	Press the joystick to the left, write the message, select <b>Options &gt; Send</b> , enter the recipient's number, then press <b>OK</b> .
Read a new message	Press <b>Show</b> , then press <b>Select</b> .
Reply to a message	Select <b>Options &gt; Reply</b> , write the reply, select <b>Options &gt; Send &gt; OK</b> .
Send a MMS	Select <b>Menu &gt; Messages &gt; Multimedia msgs. &gt; Create message</b> , write the message, select <b>Options &gt; Insert image</b> or <b>Insert sound clip</b> , choose from the list, select <b>Send to number</b> or <b>Send to E-mail</b> , enter number (or e-mail address), press <b>OK</b> .
Read MMS	Press <b>Show</b> to view (or <b>Exit</b> to view later), press <b>Options</b> , select desired option.
SMS E-mail - Send	Select <b>Menu &gt; Messages &gt; Create e-mail</b> , enter e-mail address, press <b>OK</b> , enter <b>Subject</b> , press <b>OK</b> , write e-mail, select <b>Options &gt; Send e-mail</b> , enter e-mail server number, press <b>OK</b> .
SMS E-mail - Reply	Select <b>Show &gt; Options &gt; Reply</b> , choose an option, write the reply, select <b>Options &gt; Send</b> , enter number, press <b>OK</b> .
Java E-mail - Read new messages	Select <b>Menu &gt; Messages &gt; E-mail &gt; Open &gt; Retrieve</b> . When messages are retrieved, scroll to a message and press <b>Select</b> .
Java E-mail - Send	Select <b>Menu &gt; Messages &gt; E-mail &gt; Open &gt; Create e-mail</b> , enter e-mail address, select <b>Options &gt; Save</b> , enter subject, select <b>Options &gt; Save</b> , write e-mail, select <b>Options &gt; Send e-mail &gt; Send now</b> .
Java E-mail - Reply	Read message, select <b>Options &gt; Reply</b> , choose reply option, write reply, press <b>Options &gt; Send e-mail</b> , then choose <b>Send now</b> or <b>Send later</b> .
Browser	Select <b>Menu &gt; Services &gt; Home</b> , follow directions on screen. You can also press and hold the zero key with the flip open or closed to launch the browser.
Personal Information Manager	
Notes	Open flip, press any letter key, write the note.
Calendar	Move joystick to right, or select <b>Menu &gt; Organizer &gt; Calendar</b> .
Send a business card	Recall contact, select <b>Details &gt; Options &gt; Send bus. card &gt; Via text message</b> , enter recipient's number, press <b>OK</b> .
Fun and games	
FM radio	Attach headset, select <b>Menu &gt; Radio</b> ; press headset button to change channels; press and hold  to turn radio off.
Games	Select <b>Menu &gt; Games &gt; Select game</b> , scroll to game, select <b>Options &gt; Open</b> .

## • GET HELP

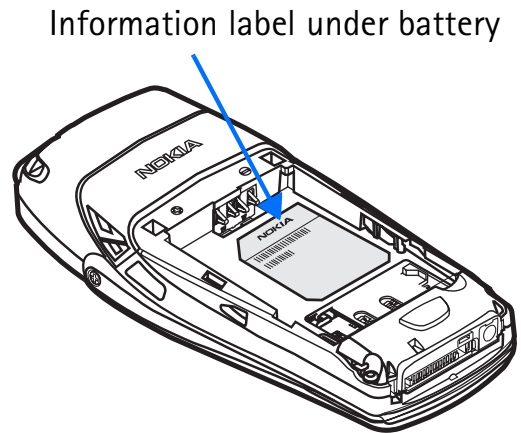
Welcome and quick guide

### Find the phone's label

If you need help, Nokia Customer Care is available for assistance.

We also recommend that you write down the following information so it can be available if you call. The information can be found on the back of the phone, beneath the battery.

- The International Mobile Equipment Identity (IMEI)
- We also ask that you write down your zip code.



### Contact Nokia

Please have your phone or enhancement with you when contacting either of the numbers below.

<b>Nokia Customer Care Center, USA</b>	<b>Customer Care Center, Canada</b>
Nokia Inc. 7725 Woodland Center Boulevard Suite 150 Tampa, Florida 33614 Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619 TTY: 1-800-24-NOKIA (hearing impaired only) (1-800-246-6542)	Nokia Products Ltd. 601 Westney Road South Ajax, Ontario L1S 4N7 Tel: 1-888-22-NOKIA (1-888-226-6542) Fax: 1-905-427-1070



## Contact your service provider

To use the network services available in your phone, you will need to sign up with a wireless provider. In many cases, the wireless provider will make available descriptions of their services and instructions for using features such as:

- Voicemail and voice privacy
- Call waiting, call forwarding, and caller ID
- Messaging (e-mail, IM, SMS, MMS)
- News and information services
- Selected Internet services










Wireless providers may differ in their support of features. Before you sign up, make sure a wireless provider supports the features that you need.











## Receive accessibility information






**Note:** Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information, visit [www.nokiaaccessibility.com](http://www.nokiaaccessibility.com).

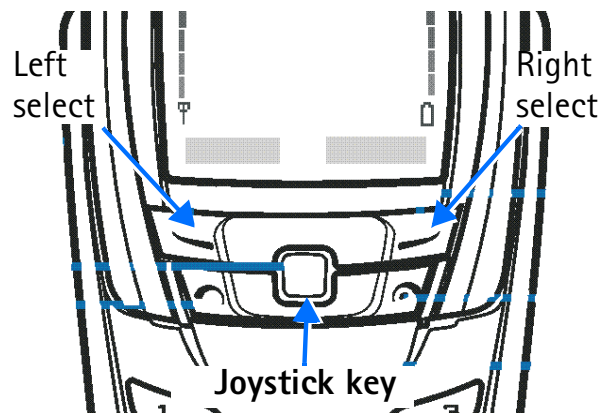
## Indicators and icons





Icon	Indicates...
	You have one or more text or picture messages. See "Reading a message" on page 32.
	You have one or more multimedia messages. See "Reading and replying to a multimedia message" on page 37.
	You have one or more voice messages. See "Voice messages" on page 45.
	Your phone's keypad is locked. See "Lock and unlock the keypad" on page 27 and "Security keyguard" on page 60.
	Your phone is set to the <b>Silent</b> profile. See "Profiles" on page 56.
	The alarm clock is set to <b>On</b> . See "Organizer" on page 65.
	The countdown timer is running. See "Countdown timer" on page 83.
	The stopwatch timing is running in the background. See "Stopwatch" on page 83.
	A GPRS dial-up connection is established. See "GPRS" on page 86.

Icon	Indicates...
	You have an incoming or outgoing call during a GPRS dial-up connection. GPRS is suspended.
	IR connection indicator. See "Infrared" on page 85.
	Forward all voice calls. All calls are forwarded to another number. If you have two phone lines, the indicator for line 1 is  and for line 2 is  .
	If you have two phone lines, this indicates that line 2 is active. See "Phone settings" on page 60.
	Speakerphone is active.
	Calls are limited to a closed user group. See "Caller groups" on page 54.
	The timed profile is selected. See "Profiles" on page 56.
	A headset, handsfree, loopset, or TTY accessory is connected to the phone.

## • SELECTION AND JOYSTICK KEYS

Below each corner of the display are the selection keys. Press  when **Menu** appears above it to show the first of numerous menus. Page through the rest of the menus using the Joystick key . Press  when **Contacts** appears above it to enter the contacts list.



 **Tip:** Press  up or down from the start screen to view any entries in Contacts. Press  left to begin writing a text message, or press  right to view the calendar.

 **Note:** You can customize the right selection key to access other features. See "Personal shortcuts" on page 57.

## Four-way scrolling

In features such as the calendar monthly view, text messages, and special characters, you can move the cursor up and down as well as left and right with the joystick key.

### • BROWSE PHONE MENUS

Your phone's features are grouped according to function and are accessed through your phone's main menus. Each main menu contains submenus and lists from which you can select or view items, and customize your phone's features. You can access these menus and submenus by using the *scroll method* or by using a *shortcut*.

For more information on your phone's menus, see "Menu functions" on page 25.



**Note:** Some features may not be available, depending on your network. For more information, contact your wireless provider.

### • CHECK IN-PHONE HELP

Many features have brief descriptions (help text) which can be viewed on the display. To view these descriptions, scroll to a feature and wait for about 10 seconds. Press **More** to view all of the description (if necessary), or press **Back** to exit.

#### ACTIVATE OR DEACTIVATE HELP TEXT

- 1 At the start screen, select **Menu > Settings > Phone settings > Help text activation**.

After a brief pause, **On** and **Off** appear in the display.

- 2 Scroll to **On** or **Off** and select **Select**.

A confirmation message appears in the display indicating your selection.

## 4 Call functions

### • FLIP CLOSED

#### Making a call

- 1 Key in the phone number, including the area code.

If you make a mistake, press **Clear** to delete a single number. Press and hold **Clear** to erase the entire field of numbers.

For international calls, press **\*+** twice for the international prefix or **+** if the flip is open, (the **+** character replaces the international access code) and then key in the country code, the area code without the leading 0, if necessary, and finally the phone number.


- 2 Press  to call the number.

- 3 Press  to end the call.

See also "Options during a call" on page 23.


#### Making a call using Contacts

- 1 Press  down to see the Contacts list.



- 2 Scroll to the name/number you want and press .

See "Contacts" on page 48 for more details. Use this feature the same way with the flip open or closed.


#### Last number redialing

In standby mode, press  twice to call the last number you dialed.

OR

Press , scroll to the number you want, and press  again. Your phone stores the last 20 numbers dialed. Use this feature the same way with the flip open or closed.

#### Calling your voice mailbox

In standby mode, press and hold **100**, or press **100** and .

If the phone asks for the voice mailbox number, key it in and press **OK**. See also "Voice messages" on page 45 for more details.

#### Using 1-touch dialing

See "1-touch dialing" on page 51 to set up this feature.

After set up, press and hold the assigned key (**2** - **9**) until the call begins.

## Conference calls

Conference calling is a network service that allows up to six persons to take part in a conference call. Use this feature the same way with the flip open or closed.

### MAKE A CONFERENCE CALL

- 1 Make a call to the first participant.
- 2 To make a call to a new participant, select **Options > New call**.
- 3 Key in, or retrieve from the memory, the phone number of the new participant and press **Call**. The first call is put on hold.
- 4 When the new participant answers, select **Options > Conference** to join the first participant in the conference call.
- 5 To add a new participant to the call, repeat steps 2–4.

### END THE CONFERENCE CALL

Select **Options > End call**.

### HAVE A PRIVATE CONVERSATION WITH A PARTICIPANT

- 1 During the conference call, select **Options > Private call**.
- 2 Scroll to the desired participant and press **Select**.
- 3 To rejoin the conference call, scroll to **Conference** and press **Select**.


### END THE CONFERENCE CALL

Select **Options > End all calls**.

OR

Press and hold .

## • ANSWER OR DECLINE AN INCOMING CALL

Press  to answer an incoming call. Use this feature the same way with the flip open or closed.


## Caller ID

This is a network service that helps identify incoming calls. Contact your service provider for more details.

When Caller ID is active, your phone may show the caller's phone number or the text **Private number**. The caller's name may also appear, if their name and number have been stored in the Contacts list. (See "Contacts" on page 48).

## Decline an incoming call

Use this feature the same way with the flip open or closed.

Press  or **Decline** to reject an incoming call.



If you press **Silence**, the ringing tone is muted. Then either answer or reject the call.

If a headset is connected to the phone, you can answer and end a call by pressing the headset key.



**Tip:** If the **Forward if busy** function is activated to forward the calls, for example, to your voice mailbox, rejecting an incoming call will send the call to your voice mail. See "Call forwarding" on page 58.

## Call waiting

During a call, press  to answer the waiting call. The first call is put on hold. Press  to end the active call. Use this feature the same way with the flip open or closed.

To activate the **Call waiting** function, see "Call waiting" on page 59.

## • FLIP OPEN

### Making a call

1 Use the number keys to enter the phone number.

For international calls, press +, then enter the country code, the area code without the leading 0, if necessary, and finally the phone number.

2 Press  to call the number.

With the flip open, calls are heard automatically through the loudspeaker. Press **Handset** to listen through the earpiece.

3 Press  to end the call.

### Using 1-touch dialing

Press and hold the corresponding number key.

## • OPTIONS DURING A CALL

Many of the options that you can use during a call are network services.

Press **Options** during a call for some of the following options:

Option	Function
Hold Unhold	Place the current call on hold or remove the call from hold status.
Lock keypad	Lock the keys on the phone. See "Lock and unlock the keypad" on page 27 and "Security keyguard" on page 60.
Record	Record the conversation for up to three minutes.

Option	Function
End call End all calls	End a call or all calls within a conference call.
New call	Place a new call; the first call is put on hold.
Decline call	Break a connection or send a call to voice mail.
Conference	Join participants in a conference call.
Private	Have a private conversation with one participant in a conference call.
Swap	Switch between the active call and the call on hold.
Touch tones	Send touch tones generated by your phone's keypad.
Contacts	Open the Contacts menu.
Menu	Display the main menus.
Mute Unmute	Mute your voice; you can hear the other party but they can't hear you; or return to normal from mute status.
Loudspeaker Headset Handset	Routes call audio to the loudspeaker, earpiece, or headset (if connected) in your phone.

## Loudspeaker

You can use your phone as a loudspeaker during a call.



**Note:** Do not hold the phone to your ear during loudspeaker operation.

- To activate the loudspeaker press **Loudsp.**
- With the flip closed, select **Options > Loudspeaker** or press **Loudsp.**, if available.
- To deactivate the loudspeaker during a call, close the flip or press **Handset**.

If a handsfree unit or headset is connected, **Handset** in the options list changes to **Handsfree** or **Headset**, and the selection key **Handset** changes to **Handsfr.** or **Headset** respectively.

The loudspeaker is deactivated automatically when you end the call, connect the handsfree unit or headset to the phone, or close the flip.

You can also use the loudspeaker with the stereo radio. See "Radio" on page 70.

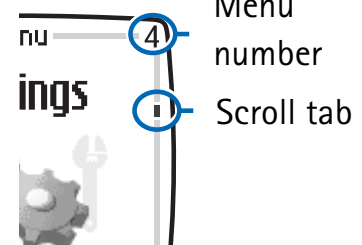
## 5 Menu functions

The phone offers you an extensive range of functions, which are grouped into menus. Most of the menu functions are provided with a brief help text. To view the help text, scroll to the menu function you want and wait for 15 seconds. To exit the help text, press **Back**. See "Help text activation" on page 61.

### • SCROLLING

- 1 At the start screen, press **Menu**, then press the joystick (□) to scroll through the main menus.

As you scroll through the menus, the menu number appears in the upper right corner of the display. Below the menu number is a scroll bar with a tab. The tab moves up or down as you scroll through the menus, providing a visual representation of your current position in the menu structure.



- 2 When you arrive at a menu, press **Select** (↖) to enter the submenus.
  - Press **Back** (↗) to return to the previous menu
  - Press (↶) to return to the start screen from any menu or submenu

### • MENU SHORTCUTS

You can go directly to almost any menu or submenu, as well as activate most features by using a shortcut.

Press **Menu**, then within 3 seconds, press the key or keys associated with the menu function you'd like to view or activate.

For example, to select the **Meeting** profile, press **Menu > 4 (Profiles) > 3 (Meeting) > 1 (Select)**. After a brief pause, the **Meeting** profile is activated.



**Note:** To access the menu functions in menu 1, press **Menu 0-1** and then the rest of the digits of the shortcut number.



## 6 Writing text


Your phone is specially designed for easy and comfortable text writing. The easiest way is to write with your thumbs using the messaging keyboard. You can, for example, start writing a message with the keyboard, close the flip and continue writing the same text using either traditional or predictive text input.



**Note:** Predictive text input is not available when the flip is open.

### • THE MESSAGING KEYBOARD


There are three ways to use the keyboard. You can start writing a text message in two ways when the flip is open.













- Select **Menu > Messages > Text messages > Create message**. See "Writing and sending text messages" on page 31.
- Press  to the left to activate text messaging.
- Press any letter key to activate **Notepad**.

The following keys are also available while writing text:

- To insert a number, press a number key.






**Tip:** You can still make a call when the flip is open. Use the number keys to enter the phone number, then press .

- To switch between lower case, upper case, or all capital letters, press one of the shift keys  or . Icons (,  or ) in the top left of the display indicate which mode you have selected. You can either press the shift key and the desired character consecutively or press and hold both the shift and the desired letter key at the same time. To write in upper case only, press  or  twice.
- To delete characters, press  or **Clear**. Press and hold  or **Clear** to delete all characters.
- To add a space, press one of the space keys ( or ) at the bottom of the keyboard.
- To start a new text line, press .

### Accented characters



The characters available depend on the language selected in the Language menu. See "Language" on page 60. Also, some accented characters or symbols are not shown on the keyboard.

- To open a set of punctuation marks, accented characters, and symbols, press the character key . Scroll through the set by moving the joystick and press **Insert** to select a character.
- To type other accented characters (such as **á** in French, or **Ñ** in Spanish) not shown in the list of special characters under , press and hold  and, at the same time, press **a** repeatedly until the desired accented variant of **a** appears on the display.


## Changing the language input

See "Language" on page 60 for more details.

### • KEYPAD

You can write using predictive or traditional text input with the keypad when the flip is closed. When you are writing text, the predictive text input is indicated by  and the traditional text input by  on the top left of the display. You can change the character case, indicated by **Abc**, **abc** or **ABC** by pressing #<sup>^</sup>. The number mode is indicated by **123**, and you can switch between the letter and number modes by pressing and holding #<sup>^</sup>.

## Lock and unlock the keypad

When the keypad is locked, this icon  appears on top of the display. You can only lock the keypad when the flip is closed. If you open the flip, the keypad will unlock.

- To lock, press **Menu** and then press \*+.
- To unlock, press **Menu** and then \*+ again.



**Important:** You can still call 911, even with the keypad locked. Please note that even when the keypad lock is activated, the phone content (except Java applications like e-mail) can be read using Nokia PC Suite when the phone is attached to a computer using data cable.

If you want to require that a security code be entered to unlock the phone, you must activate the security keyguard feature (see "Security keyguard" on page 60).

## Turning predictive text on or off

When writing text, select **Options > Predictive text**.

- To set the predictive text input on, select a language in the dictionary options list. Predictive text input is only available for the languages on the list.
- To revert to traditional text input, select **Prediction off**. (See "Traditional text input" on page 28.)



**Tip:** To quickly turn the predictive text input on or off when writing text, press #<sup>^</sup> twice, or press and hold **Options**.

## Predictive text input


You can key in any letter with a single keypress. The predictive text input is based on a built-in dictionary to which you can also add new words.

- 1 Start writing a word using the keys **A<sup>2</sup>BC** to **w<sup>9</sup>XYZ**. Press each key only once for one letter. The word may change after each keystroke.



**Example:** To write **Nokia** when the English dictionary is selected, press **M<sup>6</sup>N<sup>6</sup>O<sup>6</sup>** once for **N**, **M<sup>6</sup>N<sup>6</sup>O<sup>6</sup>** once for **o**, **J<sup>5</sup>K<sup>5</sup>L<sup>5</sup>** once for **k**, **G<sup>4</sup>H<sup>4</sup>I<sup>4</sup>** once for **i** and **A<sup>2</sup>BC** once for **a**.

To insert a number while in letter mode, press and hold the desired number key.

- 2 When you have finished writing the word and it is correct, confirm it by adding a space with **□**  or by moving the joystick to the right.
- 3 If the word is not correct, press **\*+** repeatedly or select **Options > Matches**.
- 4 When the word you want appears, confirm it.

If the **?** character appears after the word, the word you intended to write is not in the dictionary.

- 5 To add the word to the dictionary, press **Spell**, key in the word (traditional text input is used) and press **Save**.

When the dictionary becomes full, the new word replaces the oldest one that was added.

- 6 Start writing the next word.

## Compound words

Key in the first part of the word and confirm it by moving the joystick to the right. Write the last part of the word and confirm it by moving the joystick to the right.

## Traditional text input


Press a number key, **1<sup>00</sup>** to **w<sup>9</sup>XYZ**, repeatedly until the desired character appears. Not all characters available under a number key are printed on the key. The characters available depend on the language selected in the **Language** menu, see "Language" on page 60.

To insert a number while in letter mode, press and hold the desired number key.

- If the next letter you want is located on the same key as the present one, wait until the cursor appears or move the joystick to the right, and then key in the letter.
- The most common punctuation marks and special characters are available under the number key **1<sup>00</sup>**.

## Tips for writing text

The following functions may also be available for writing text in predictive or traditional input:

- To insert a space, press .
- To move the cursor to the right, left, up or down, move the joystick respectively.
- To delete a character to the left of the cursor, press **Clear**. Press and hold **Clear** to delete the characters more quickly.
- To delete all the characters at once when writing a message, select **Options > Clear text**.
- To insert a word when using the predictive text input, select **Options > Insert word**. Write the word using the traditional text input and press **Save**. The word is also added to the dictionary.
- To insert a special character when using the traditional text input, press **\*+** or when using the predictive text input, press and hold **\*+**, or select **Options > Insert symbol**.

Move the joystick to a character and press **Insert** to select the character.

You can also scroll to a character by pressing **2**<sub>ABC</sub>, **4**<sub>GHI, MNO</sub>, or **8**<sub>TUV</sub>, and select the character by pressing **5**<sub>JKL</sub>.

The following options are available when writing text messages:

- To insert a number while in the letter mode, select **Options > Insert number**. Key in the number or search for it in Contacts and press **OK**.
- To insert a name from Contacts, select **Options > Insert name**. To insert a phone number or a text item attached to the name, select **Options > View details**.

# 7 Messages



**Note:** When sending messages, your phone may display the words **Message sent**. This indicates that the message has been sent by your phone to the message center number programmed into your phone. This is not an indication that the message has been received at the intended destination. For more details about SMS services, check with your service provider.

You can read, write, send, and save text, multimedia, and e-mail messages. All messages are organized in folders.

Before you can send any text or picture messages, you need to save your message center number. See "Settings for text messages" on page 30.

## • TEXT MESSAGES (SMS SERVICE)

This network service lets you send and receive multipart messages through your phone which consist of several ordinary text messages. Invoicing is based on the number of ordinary messages that are required for a multipart message.

You can also send and receive picture messages containing text and a picture. See "Inserting a picture template into a text message" on page 34 for more details.

## Settings for text messages

The message settings affect the sending, receiving, and viewing of messages.

- 1 Select **Menu > Messages > Message settings > Text messages > Sending profile**.
- 2 If more than one message profile set is supported by your SIM card, select the set you want to change.
  - Select **Message center number** to save the phone number of the message center that is required for sending text messages. You will receive this number from your service provider.
  - Select **Messages sent as** to select the message type **Text**, **E-mail**, **Page**, or **Fax**.
  - Select **Message validity** to select the length of time for which the network should attempt to deliver your message.
  - Select **Default recipient number** to save a default number for sending messages for this message profile.
  - Select **Delivery reports** to ask the network to send delivery reports about your messages (network service).

- Select **Use GPRS** to set GPRS as the preferred SMS bearer.
- Select **Reply via same center** to allow the recipient of your message to send you a reply using your message center (network service).
- Select **Rename sending profile** to change the name of the selected message profile. The message profile sets are only displayed if your SIM card supports more than one set.
- For message type e-mail, select **E-mail server** to save the e-mail server number.

## Overwrite settings

When the text message memory is full, the phone cannot receive or send any new messages. However, you can set the phone to automatically replace old text messages in the **Inbox** and **Sent items** folders with the new ones.

Select **Menu > Messages > Message settings > Text messages > Overwriting in sent items** or **Overwriting in inbox**. Select **Allowed** to set the phone to replace the old text messages with new ones in the **Sent items** or the **Inbox** folder, respectively.

## Writing and sending text messages

The number of available characters and the current part number of a multipart message appear in the top right of the display.

- 1 Select **Menu > Messages > Text messages > Create message**.



**Tip:** To quickly open the **Create message** menu in standby mode, move the joystick to the left.


- 2 Key in a message (see "Writing text" on page 26). To insert text templates or a picture into the message, see "Templates" on page 34.
- 3 To send the message, select **Options > Send**.
- 4 Enter the recipient's phone number or search for the phone number in Contacts.
- 5 Press **OK** to send the message.

## Options for sending a text message

After you have written a message, select **Options > Sending options**.


- To send a message to several recipients, select **Send to many**. When you have sent the message to everyone you want to send it to, press **Done**.
- To send a message using a distribution list, select **Send to list**. For creating a distribution list, see "Distribution lists" on page 33.
- To send a message using a message profile, select **Sending profile** and then the desired message profile. For defining a message profile, see "Settings for text messages" on page 30.

## Reading a message


When you receive a message, your phone beeps and **Message received** appears in the display as well as the unopened letter icon (  ).

- 1 Press **Show** to read the message, or **Exit** to move it to your inbox.



**Note:** If the  icon is blinking, it indicates that the message memory is full. Before you can receive new messages, you must delete some of your old messages.

Use the scroll key to view the whole message if necessary. Keep scrolling to view other information, such as the sender number and time the message was sent.

- 2 Press **Back** to move the message to the Inbox, or press **Options** for other choices, such as **Reply** or **Forward**.
- 3 If more than one message has been received, select the one that you want to read. An unread text message is indicated by  in front of it.

## Read linked messages

Your phone can receive one long message (up to 612 characters) in sequences. You can start reading the first part before the phone has received the entire message.

While viewing the message, you may see **some text missing** on the display. This is normal, and the message content will be updated as soon as the missing sequence arrives.

If the memory is full, you may have to delete a message from your inbox or outbox before your phone can update the missing text.

## Replying to a message

- 1 While viewing the message, press **Options**.

You can select an option, for example, to delete, forward, edit, move, and rename the message you are reading.

Select **Copy to calendar** to copy text at the beginning of the message to your phone's calendar as a reminder note for the current day.

Select **Message details** to view the sender's name and phone number, the message center used, and the date and time of receipt.

Select **Use detail** to extract numbers, e-mail, and website addresses from the current message.

When reading a picture message, select **Save picture** to save the picture in the **Templates** folder.

- 2 Select **Reply**. Several options appear:
  - Select **Empty screen** to write your own reply.

- Select **Original text** to include the original message in the reply.
  - Select **Template** to choose one of 10 text templates to help compose your reply.
  - Scroll down and select one of the standard answers in the list.
- 3** Select **Options > Send > OK** to send the message to the displayed number. See "Options for sending a text message" on page 31 for more choices.

## Inbox and Sent items folders

The phone saves incoming text messages in the **Inbox** folder and sent messages in the **Sent items** folder of the **Text messages** submenu.

Text messages that you wish to send later can be saved in the **Archive, My folders,** or **Templates** folder.

## Distribution lists

You can save up to 30 distribution lists in the phone's memory for sending text messages to several people at once. If the message sending fails, an **Undelivered** folder will appear containing a list of the recipients who did not receive the message.

- 1** Select **Menu > Messages > Text messages > Distribution lists**.
- 2** Press **Add** to create a new distribution list. Key in the name for the list and press **OK**.

### ADD NAMES TO THE DISTRIBUTION LIST

- 1** Select **Options > View list > Add**.
- 2** Scroll to the name you want in Contacts and press **Select**.



**Note:** Be sure phone memory is activated because contacts for the distribution lists are copied from phone memory. See "Selecting settings for contacts" on page 48 for more information.

### DISTRIBUTION LIST OPTIONS



While viewing a distribution list, press **Options** to see the following features:

- **View list** to view or add names and phone numbers in the selected list.
- **Add list** to add a new distribution list.
- **Rename list** to change the name of the selected list.
- **Clear list** to delete all names from the selected list.
- **Delete list** to remove the selected list from the folder.

In the **Undelivered** folder you can, for example, select **View message** to view the failed message or **Resend to list** to send the message again.



## Templates


Your phone includes 10 text templates, indicated by , and 10 picture templates, indicated by .

To access the template list, select **Menu > Messages > Text messages > Templates**.

### INSERTING A TEXT TEMPLATE INTO A TEXT MESSAGE

When you are writing or replying to a message, select **Options > Use template** and select the template that you want to insert.

### INSERTING A PICTURE TEMPLATE INTO A TEXT MESSAGE

When you are writing or replying to a message, select **Options > Insert picture** and select a picture to view it. Press **Insert** to insert the picture into your message. The  indicator in the header of the message indicates that a picture has been attached. The number of characters that you can enter in a message, depends on the size of the picture.

To view the text and the picture together before sending the message, select **Options > Preview**.



**Note:** The picture message function can be used only if it is supported by your network operator or service provider. Only phones that offer picture message features can receive and display picture messages.

## Archive folder and My folders

To organize your messages, you can move some of them to the **Archive** folder, or add new folders for your messages.

While reading a message, select **Options > Move**, scroll to the folder that you want to move the message to, and press **Select**.

To add or delete a folder, select **Menu > Messages > Text messages > My folders**.

- To add a folder, select **Options > Add folder**.
- To delete a folder, scroll to the folder that you want to delete, select **Options > Delete folder**.

## • MULTIMEDIA MESSAGES



**Note:** This function can be used only if it is supported by your network operator or service provider. Only phones that offer compatible multimedia message features can receive and display multimedia messages.

You can send multimedia messages containing text and a picture and receive multimedia messages containing text, a polyphonic ringing tone, and a picture. The phone supports multimedia messages that are up to 45 KB in size. If the maximum size is exceeded, the phone may not be able to receive the message. Depending on the network, you may receive a text message that includes an Internet address where you can view the multimedia message.

If the message contains a picture that is larger than the display area, the phone scales it down to fit the display area.



**Note:** If **Allow multimedia reception** is set to **Yes** or **In home network**, your operator or service provider may charge you for every message you receive.

Multimedia messaging supports the following formats:

- Picture: JPEG, GIF, PNG and BMP.
- Sound: Scalable polyphonic MIDI (SP-MIDI) and monophonic ringing tones.

If a received message contains any unsupported elements, they may be replaced with the file name and the text **Object format not supported**.

Note that you are not able to receive any multimedia messages if you have a call in progress, a game or another Java application running, or an active WAP connection over GSM data. Because delivery of multimedia messages can fail for a variety of reasons, do not rely solely upon them for essential communications.

## Settings for multimedia messages

Select **Menu > Messages > Message settings > Multimedia msgs**. Select from the following list of multimedia settings:

- **Save sent messages.** Select **Yes** to set the phone to save sent multimedia messages in the **Sent items** folder. If you select **No**, the sent messages are not saved.
- **Allow multimedia reception.** Select **No**, **Yes** or **In home system** to use the multimedia service. If you select **In home system**, you cannot receive multimedia messages outside your home network.
- **Incoming multimedia messages.** Select **Retrieve** to set the phone to automatically retrieve newly received multimedia messages, or select **Reject** if you do not wish to receive multimedia messages.
- **Connection settings.** Define WAP connection settings for retrieving multimedia messages. Activate the set where you want to save the connection settings and then edit the settings.
- **Allow advertisements.** You can receive or reject advertisements.

## RECEIVE MULTIMEDIA CONNECTION SETTINGS AS A TEXT MESSAGE


You may receive the multimedia connection settings as a text message from the network operator or service provider that offers the WAP service you want to use. For more information, contact your network operator or service provider.

## Writing and sending a multimedia message


To enter the settings for multimedia messaging, see "Settings for multimedia messages" on page 35. For availability and subscription to the multimedia messaging service, contact your network operator or service provider.

- 1 Select **Menu > Messages > Multimedia msgs. > Create message.**
- 2 Key in a message (see "Writing text" on page 26).
- 3 Insert an image or a sound clip. In some networks, you may be able to send both a sound clip and an image.

### Insert image

Select **Options > Insert image.** The list of available folders in the **Gallery** appears. Open the **Graphics** folder, scroll to a picture, and select **Options > Insert.** The  indicator on the header of the message indicates that a picture has been attached.

### Insert sound clip

Select **Options > Insert sound clip.** The list of available folders in the **Gallery** appears. Open the **Tones** folder, scroll to a tone, select **Options > Insert.** The  indicator on the header of the message indicates that a sound clip has been attached.


To insert a name from Contacts, select **Options > More options > Insert contact.** Scroll to the desired name, and select **Options > Insert contact.**

To insert a number, select **Options > More options > Insert number.** Key in the number or search for it in Contacts and press **OK.**



**Note:** In some networks, you must enter the number 1 before the area code and phone number.

- 4 To view the message before sending it, select **Options > Preview.**
- 5 To send the message, select **Options > Send to number** or **Send to e-mail.**
- 6 Enter the recipient's phone number or e-mail address or search for the phone number or e-mail address in Contacts. Press **OK** and the message is moved to the **Outbox** folder for sending.



It takes more time to send a multimedia message than to send a text message. While the multimedia message is being sent, the animated indicator  is displayed and you can use other functions of the phone. If there is an interruption, while the message is being sent, the phone tries to resend it a few times. If this fails, the message will remain in the **Outbox** folder and you can try to resend it later.


You choose to save messages that you have sent in the **Sent items** folder. See "Settings for multimedia messages" on page 35.

## Reading and replying to a multimedia message



**Note:** In some networks, you must first send a multimedia message before you can begin receiving them.

While receiving a multimedia message, the animated indicator  appears. When the message is complete, the indicator  and the text **Multimedia message received** appear.

If the  icon is blinking, it indicates that the memory for multimedia messages is full, see "Multimedia messages memory full" on page 38.

1 Press **Show** to view the message, or press **Exit** to view it later.

If you get more than one message, scroll to the one you want to read and press **Select**.

2 Press **Options** and some of the following options may be available.

- **Delete message** to delete the message.
- **Reply** to reply to the message. To send the reply, select **Options > Send**. The sender's phone number (or e-mail address) is used as the default value.
- **Forward to no.** sends the message to a phone number.
- **Forward to e-mail** sends the message to an e-mail address.
- **Edit** to edit a message. You can only edit messages you have written.
- **Message details** to view the subject, size, and class of the message.
- **Details** to view the details of the attached image or sound.
- **Play** to listen to the ringing tone that is contained in the message.
- **Save sound clip** to save a ringing tone in the **Gallery**.
- **Save image** to save the picture in the **Gallery**.

## Inbox, Outbox, Saved, and Sent items folders


The phone saves the multimedia messages that have been received in the **Inbox** folder of the **Multimedia msgs.** submenu.

Multimedia messages that have not yet been sent are moved to the **Outbox** folder of the **Multimedia msgs.**

The multimedia messages that you wish to send later, can be saved in the **Saved items** folder of the **Multimedia msgs.** submenu.

The multimedia messages that have been sent are saved in the **Sent items** folder of the **Multimedia msgs.** submenu, if the setting **Save sent messages** is set to **Yes**. See "Settings for multimedia messages" on page 35.

## Multimedia messages memory full

When you have a new multimedia message waiting and the memory for the messages is full, the indicator  blinks and **Multimedia memory full, view waiting msg.** is shown. To view the waiting message, press **Show**. To save the message, select **Options > Save message**, and delete old messages by first selecting the folder and then the old message to be deleted.

To discard the waiting message, select **Exit** and **Yes**. If you select **No**, you can view the message.

## Deleting messages

You can select a folder and delete all the messages in that folder at once. Or, you can recall messages and delete them one at a time.

### DELETE ALL MESSAGES

- 1 Select **Menu > Messages**.
- 2 Scroll to the message type that you want to delete (**Text messages**, or **Multimedia Msgs.**) and press **Select**.
- 3 Scroll to **Delete messages** and press **Select**.
- 4 Scroll to the folder with the messages you want to delete and press **Select**.  
For Text messages, the folders include **All messages**, **Inbox**, **Sent items**, **Archive**.  
For Multimedia messages the folders include **Inbox**, **Outbox**, **Sent items**, **Saved items**.
- 5 When the confirmation message appears, press **OK**.  
If the folder contains unread messages, the phone will ask whether you want to delete them also.  
If you decide not to delete all the messages in that folder, press **Back**.

### DELETE INDIVIDUAL MESSAGES

- 1 Select **Menu > Messages**.
- 2 Scroll to the message type that you want to delete (**Text messages**, or **Multimedia Msgs.**) and press **Select**.
- 3 Scroll to the folder with the message you want to delete and press **Select**.  
For Text messages, the folders include **Inbox**, **Sent items**, **Archive**.  
For Multimedia messages the folders include **Inbox**, **Outbox**, **Sent items**, **Saved items**.
- 4 Select to the message you want to delete, and press **Options**.  
**Delete** appears highlighted.
- 5 Press **Select**, and when the confirmation message appears, press **OK**.

## • E-MAIL MESSAGES

The Nokia 6800 phone has two ways to send e-mail: using the SMS system or the Java e-mail application. The method available to you depends on your service provider. Both methods, using SMS and the Java application, are explained here.

Before you can send and retrieve e-mails,

- You need an active e-mail account and the settings for that account. For the e-mail settings and availability of your e-mail account, contact your e-mail service provider.
- You must set the e-mail settings on your phone. See "E-mail settings" on page 43.
- You must activate the e-mail service settings obtained from your service provider.

Some of these settings may be preset in your phone. Check with your service provider.

### Write and send e-mail with the SMS Method

You can send e-mail to anyone with an e-mail address. First, you will need to setup an e-mail profile and modify a few other settings. It takes just a few minutes, and you only need to do this once.



**Important:** The e-mail address is included in the total character count for an e-mail message. Leave enough space for the e-mail address while composing your message or you will be taken back to the editor, where you will have to delete some text before sending.



**Note:** You cannot send picture messages with SMS e-mail. Service providers may customize the SMS message settings interface. For more details about SMS services, please contact your service provider.

### Write down the e-mail server number

Write down your **e-mail server number** (also known as the "e-mail gateway" number) in the following table. You will need this number when setting up an e-mail profile in the next section. Get this number from your wireless provider.

Number	Where to find it	Write the number below
e-mail server number	Your wireless provider	

### Setup an e-mail profile

- 1 At the start screen, select **Menu > Messages > Message settings**.
- 2 Select **Text messages > Sending profile**.
- 3 Scroll to an empty profile slot and press **Select**.

#### 4 Choose from the following options:

Message Setting	Function
Message center number	Save the phone number of the message center, which is necessary for sending text messages; obtain this number from your wireless provider
Messages sent as	Available if your service provider supports this service
Message validity	Available if your service provider supports this service
Default recipient number	For text messages, the default number used to send messages
Delivery reports	Request the network to send delivery reports on your messages. Check with your service provider for availability.
Use GPRS	Set GPRS as the preferred method of sending SMS
Reply via same center	Allow the recipient of your message to send you a reply message using your message centre (network service)
Rename sending profile	Change the name of the selected sending profile; the sending profile sets display only if your SIM card supports more than one set

## Write and send e-mail



**Note:** See "Writing text" on page 26 for ways to write messages faster.

- 1 At the start screen, select **Menu > Messages > Text messages > Create SMS e-mail**.

After a brief pause, you're prompted to enter the e-mail address.

- 2 Enter the e-mail address, or press **Find** to retrieve an e-mail address from Contacts, and press **OK**.
- 3 Enter a subject for the e-mail and press **OK**.
- 4 Compose your e-mail using the keypad and press **Options**.




**Tip:** Leave enough space in the total character count for the e-mail address.

- 5 Select **Send e-mail**.
- 6 Enter the e-mail server number (obtained from your service provider).
- 7 Press **OK**.

## View a message or e-mail

When you have received a text message or e-mail, the number of new messages and \_\_\_ **Message(s) received** appears in the display.






**Note:** The blinking  indicates that the message memory is full. Before you can receive new messages, delete some of your old messages. See "Deleting messages" on page 38 for more information.

- Press **Show** to view the message now, or **Exit** to view it later.

## Read the message later

- 1 Select **Menu > Messages > Text messages > Inbox**.
- 2 If more than one message is received, select the message you want to read and press **Select**.

An unread text message is indicated by  in front of the message, and an unviewed picture message by . An unread multimedia message is indicated by .

## Write and send e-mail with the Java Method

Before you can send and retrieve e-mails,

- You need an active e-mail account and the settings for that account. For the e-mail settings and availability of your e-mail account, contact your e-mail service provider.
- You must set the e-mail settings on your phone. See "E-mail settings" on page 43.
- Some of these settings may be preset in your phone by your service provider. If so, you must activate these e-mail service settings.

You can write your e-mail message before connecting to the e-mail service or connect to the service first, and then write and send your e-mail.

- 1 Select **Menu > Messages > E-mail > Open > Create e-mail**.
- 2 Enter the recipient's e-mail address one of two ways:
  - Key in the e-mail address with the keypad.
  - OR
  - Select **Options > Find** and press **Select** to search for the e-mail address in Contacts, then press **Select**.
- 3 Select **Options > OK**.
- 4 Enter the subject of the e-mail, if you want, and select **Options > OK**.
- 5 Write the e-mail message. (See "Writing text" on page 26.) The number of characters you can enter appears in the top right of the display.



- 6 When finished writing the message, you have the following options:
  - To save a draft version of the e-mail, select **Options > Save draft msg.** If you want to edit or continue writing your e-mail later, you can open it from the **Drafts** folder.
  - To send the e-mail message, select **Options > Send e-mail.**
- 7 Select
  - **Send now** to send the e-mail immediately. If you are not currently connected to the e-mail account, your phone establishes the connection first and then sends the e-mail.
  - **Send later** saves the e-mail in the **Outbox** folder. Then, when you are ready to send the e-mail later, you can select **Menu > Messages > E-mail > Open > Other folders > Outbox.** Scroll to the message you want to send, press **Select.** Then select **Options > Send sel. message** (or **Send all** if you'd like to send all messages in your **Outbox**).


## Other options available for the e-mail application

- **Details** gives additional information about the application.
- **Service settings** activates the network connection settings for your e-mail function.
  - **Application** activates settings that are used for the e-mail application.
  - **Default** confirms that your e-mail function uses the same settings as the WAP browser. Contact your e-mail service provider, if in doubt.

## Download messages from your e-mail account

You have two choices when checking your e-mail: **Retrieve** or **Send and retrieve.**

- 1 Select **Menu > Messages > E-mail > Open.**
- 2 To download e-mail messages sent to your e-mail account, select **Retrieve .** Your phone makes a connection to the e-mail service. A waiting bar is shown, while your phone is downloading e-mail messages to your phone.  
If the message memory is full, delete some of your older messages before you start to download new messages.  
OR  
Select **Menu > Messages > E-mail > Open > Other options > Retrieve and Send** to download new e-mail messages and to send e-mails that have been saved in the **Outbox** folder.
- 3 To view a new message, press **Select,** or to view it later, press **Back.**  
To read the e-mail later, select **Menu > Messages > E-mail > Open > Inbox.**

- 4 If more than one message is received, select the message you want to read. An unread e-mail message is indicated by .

## Reply to an e-mail message

- 1 While reading or viewing the message, press **Options**.  
You can, for example, select an option to delete, reply, reply to all, forward or archive the message you are reading.
- 2 Select **Reply**.
- 3 Select **Original text** to include the original message in the reply or select **Empty screen**.
- 4 Write your reply.
- 5 When finished, select **Options > Send e-mail > Send now** to send the message to the displayed number.

## Inbox, Drafts, Archive, Outbox, and Sent items folders

Your phone has the following folder in the **E-mail** menu:

- **Inbox** for saving e-mails that you have downloaded from your e-mail account.

The following folders are available in the **Other folders** menu:

- **Drafts** for saving unfinished e-mails.
- **Archive** for organizing and saving your e-mails.
- **Outbox** for saving e-mails that have not been sent. See "Write and send e-mail with the SMS Method" on page 39.
- **Sent items** for saving e-mails that have been sent.

## Delete e-mail messages

- 1 Select **Menu > Messages > E-mail > Open > Other options > Delete messages**.
- 2 Choose **All messages**, or scroll to a specific folder, and press **Select**.
- 3 Select **Yes** to confirm or **Back** to cancel.

## E-mail settings

These settings may already be set up in your phone (depending on your service provider). If you must enter the settings manually, perform the following steps:

- 1 Select **Menu > Messages > E-mail > Open > Other options > Settings**.
- 2 Select **Mailbox in use** to view a list of mailboxes, then scroll to the one you want to edit and select **Activate**.

You have five mailboxes that you can use for the e-mail settings of your phone for saving and retrieving e-mail messages.

- 3 Select **Edit active mailbox** and select each of the settings one by one. Enter the required settings according to the information you have received from your mail service provider:


Setting	Explanation
Mailbox name	The name for the mailbox.
E-mail address	Your e-mail address.
My name	Adds a nickname to your e-mail address.
Outgoing (SMTP) server	Address for the outgoing (SMTP) server. For example, smtp.mail.com.
Incoming server type	Either <b>POP3</b> or <b>IMAP4</b> . If both types are supported, select IMAP4. Changing the server type also changes the incoming port number.
Incoming (POP3/IMAP) server	E-mail server type for the incoming e-mail. Changing the server type also changes the incoming port number.
POP3/IMAP user name	User name to access the mailbox; found in the first part of your e-mail address.
POP3/IMAP password	Password to access the mailbox.

#### Advanced settings

Include signature	Personal signature automatically added to e-mail.
Use SMTP authorization	Set to <b>On</b> , if required for sending e-mails. If not, select <b>Off</b> .
SMTP user name	User name for outgoing e-mails (if required); found in the first part of your e-mail address.
SMTP password	Password for outgoing e-mails (if required).
Outgoing (SMTP) port	SMTP port number for outgoing e-mails (common value is 25).
Incoming (POP3/IMAP) port	Port number: <b>110</b> for POP3 and <b>143</b> for IMAP.
Reply-to address	Sends incoming replies to a different mailbox.
Secure login APOP	For POP3 only: <b>On</b> for the connection requiring an encrypted login, otherwise <b>Off</b> .
Retrieve mails	<b>All</b> to retrieve all e-mails at once or <b>User defined</b> to retrieve only some at a time.

## • VOICE MESSAGES

Voice mailbox is a network service and you may need to subscribe to it. For more information and for the voice mailbox number, contact your service provider.

If supported by the network, the indicator  will show new voice messages. Press **Listen** to call your voice mailbox number when you see this icon.

To access the messages in your voice mailbox, select **Menu > Messages > Voice messages**, and one of the following options:

- **Listen to voice messages**—This option calls your voice mailbox at the number you have saved in the **Voice mailbox number** menu.

Each phone line may have its own voice mailbox number, see "Line for outgoing calls" on page 59.

- **Voice mailbox number**—This option allows you to key in, search for, or edit your voice mailbox number. Press **OK** to save it.



**Tip:** Press and hold **100** to call your voice mailbox when the flip is closed.

## • FONT SIZE SETTING

To select the font size for reading and writing messages, select **Menu > Messages, Message settings > Other settings > Font size**.

## • SERVICE COMMANDS

Select **Menu > Messages > Service commands**. Key in and send service requests (also known as USSD commands) such as activation commands for network services, to your service provider.

## • INFO MESSAGES

With the info message network service you can receive messages on various topics from your service provider, for example, weather or traffic conditions. For available topics and the relevant topic numbers, contact your service provider.

If the **GPRS connection** is set to **Always online**, the info messages may not be received. In that case, set the **GPRS connection** to **When needed**, see "GPRS connection" on page 86.

# 8 Call log



The phone registers the phone numbers of missed, received and dialed calls, and the approximate length and cost of your calls.

The phone registers missed and received calls only if the network supports these functions. The phone must be switched on and within the network service area.


When you press **Options** in the **Missed calls**, **Received calls**, and **Dialed numbers** menu, you can, for example, view the date and the time of the call, edit or delete the phone number from the list, save the number in Contacts, or send a message to the number.

## Recent calls lists

Select **Menu > Call log**, then select among the following functions:

- **Missed calls.** To view the list of the last ten phone numbers from which somebody has tried to call you (network service). The number in front of the (name or) phone number indicates the amount of call attempts from that caller.



**Tip:** When a note about missed calls is displayed, press **List** to access the list of phone numbers. Scroll to the number you would like to call back and press .

- **Received calls.** To view the list of the last 10 phone numbers from which you have most recently accepted calls (network service).
- **Dialed numbers.** To view the list of the last 20 phone numbers that you have most recently called or attempted to call. See also "Last number redialing" on page 21.
- **Delete recent call lists.** To delete the recent calls lists. Select whether you want to delete all the phone numbers in the recent calls lists, or only the numbers in the missed calls, received calls or dialed numbers lists. You cannot undo the operation.

## Call counters and call timers



**Note:** The actual invoice for calls and services from your service provider may vary, depending upon network features, rounding-off for billing, taxes and so forth.

Select **Menu > Call log** and then select

- **Call timers.** Scroll to view the approximate duration of your incoming and outgoing calls in hours, minutes and seconds. The security code is required to clear the timers.

Each phone line has its own call timers and the timers of the selected line are displayed. See "Line for outgoing calls" on page 59.

- **Call costs** (network service). Select **Last call units** or **All calls units** to check the cost of your most recent call or all calls in terms of units specified within the **Show costs in** function.

Select **Call cost settings** and select **Clear counters** to clear the counters. Select **Show costs in** to set the phone to show the remaining talk-time in terms of charging units or units of currency. Select **Call cost limit** to limit the cost of your calls to a certain amount of charging units or units of currency. (The PIN2 code is required for the call cost settings.) Contact your service provider for charging unit prices.




**Note:** When no more charging units or currency units are left, calls may only be possible to the emergency number programmed into your phone (for example, 911 or other official emergency number).

- **GPRS data counter.** Scroll to check the size of data sent or received in bytes, sent and received data in total, and to clear the counters. The security code is required to clear the counters.
- **GPRS connection timer.** Scroll to check the duration of the last GPRS connection or the total GPRS connection. You can also clear the timers. The security code is required to clear the timers.

# 9 Contacts



You can save names and phone numbers (contacts) both in the phone's memory and in the SIM card's memory.

- You may save up to 500 names with numbers, addresses and text notes about each name in the phone's memory. The number of names that can be saved depends both on the length of the names and the number and length of the phone numbers and text items.
- The phone supports SIM cards that can save up to 250 names and phone numbers. Names and numbers saved in the SIM card's memory, are indicated by this icon: .

## • SELECTING SETTINGS FOR CONTACTS

- 1 Select **Menu > Contacts > Settings**.
- 2 Select **Memory in use** to set the memory, either SIM card or phone, that you want to use for your contacts. To recall names and numbers from both memories for Contacts, select **Phone and SIM**.
- 3 **Contacts view** selects how the names (and numbers) appear in the Contacts list.
- 4 **Memory status** indicates how much memory is available for additional contacts.

## • SAVING NAMES AND PHONE NUMBERS (ADD CONTACTS)

Names and numbers will be saved in the memory selected above.


- 1 Select **Menu > Contacts > Add contact**.
- 2 Key in the name and press **OK**. See "Traditional text input" on page 28.
- 3 Key in the phone number, and press **OK**. To key in the numbers, see "Making a call" on page 23.
- 4 When the name and number are saved, press **Done**.



**Tip:** To quick save in standby mode, enter the phone number and select **Options > Save**. Enter a name, and select **OK** and **Done**. To quick save the phone number only, press and hold **Options**. The number is saved in **Contacts**, and you can add a name to it later.

## Saving multiple numbers and text items per name

You can save different types of phone numbers and short text items per name in the phone's internal memory for Contacts.

The first number saved is automatically set as the default number. It is indicated with a frame around the number type indicator, for example . When you select a name from Contacts, for example, to make a call, the default number is used unless you select another number.

- 1 At the start screen, move the joystick up or down and scroll to the entry to which you wish to add a number or detail.

Make sure that the memory in use is either **Phone** or **Phone and SIM**. See "Selecting settings for contacts" on page 48.

- 2 Select **Details > Options > Add number** or **Add detail**.
- 3 Scroll to one of the following number or text types and press **Select**.


Number types:

 **General**    **Mobile**    **Home**    **Work**    **Fax**

Text types:

 **E-mail address**    **Web address**    **Street address**    **Note**

- 4 Enter the number or text for the type you have selected and press **OK** to save it.
- 5 Select **Back > Exit** to return to standby mode.

 **Note:** To change the number type or text type, select a contact number and then select **Details > Options > Change type**.

## Changing the primary number

- 1 Move the joystick up or down in standby mode, scroll to the name you want, and press **Details**.
- 2 Scroll to the number you want to set as the default number and press **Options**.
- 3 Scroll to **As primary number** and press **Select**.

## ● SEARCHING FOR A NAME IN CONTACTS

- 1 Select **Menu > Contacts > Find**.
- 2 You can key in the first characters of the name you are searching for in the pop-up window.  
Move the joystick up or down to scroll through the names in the list, and right or left to move the cursor in the pop-up window.
- 3 Scroll to the name you want, and press **Details**. Scroll to view the details of the selected name.



**Tip:** To quickly find a name and phone number, move the joystick up or down in standby mode. Key in the first letter of the name, and/or scroll to the name you want.



## • EDITING A NAME, NUMBER OR TEXT ITEM

- 1 Search for the name and number you want to edit and press **Details**.
- 2 Scroll to the name, number, or text item you want to edit, and press **Options**.
- 3 Select **Edit name**, **Edit number**, or **Edit detail**, and edit the name, number, or text.
- 4 Press **OK** when finished.

## • DELETING CONTACTS

To delete contacts one by one:

- 1 Select **Menu > Contacts > Delete > One by one** and scroll to the name and number you want to delete.
- 2 Press **Delete** and press **OK** to confirm.

To delete contacts all at once:

- 1 Select **Menu > Contacts > Delete > Delete all**, scroll to **Phone** or **SIM card**, and press **Delete**.
- 2 Press **OK** and confirm with the security code.

## • COPYING CONTACTS

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

- 1 Select **Menu > Contacts > Copy**.
- 2 Select **From phone to SIM card** or **From SIM card to phone**.
  - To copy from phone to SIM card, select **One by one**, **All**, or **Primary numbers**.
  - To copy from SIM card to phone, select **One by one** or **All**.
- 3 Scroll to the contact you want to copy and press **Copy**.
- 4 Choose **Keep original** to keep the original contact, or **Move original** to delete it.
- 5 Press **Select** to proceed with copying or moving entries.

## • SENDING AND RECEIVING A BUSINESS CARD

You can send and receive a person's contact information as a business card using IR or as an over the air (OTA) message if supported by the network.

### Receiving a business card

To receive a business card using IR, make sure that your phone is ready to receive data through its IR port, see "Infrared" on page 85. The user of the other compatible phone can now send the name and phone number using Infrared.

When you have received a business card using IR or as an OTA message, press **Show**. Press **Save** to save the business card in the phone's memory. To discard the business card, press **Exit** and then **OK**.



**Note:** Business cards are automatically saved to phone memory. Be sure to transfer the information to SIM memory so you can copy the information to a personal computer or other devices. Also, since the SIM card saves only the primary number, consider backing up all of your business card data with PC Suite. See "PC Suite" on page 108.

## Sending a business card

You can send a business card using IR or as an OTA message to a compatible phone or other handheld device which supports the vCard standard.

- 1 To send a business card, search for the name and phone number you want to send from Contacts, select **Details > Options > Send bus. card**.
- 2 To send the business card using IR, select **Via infrared**.
- 3 Make sure that the other phone or the PC is set up to receive data using its IR port.
- 4 Press **Select**.
- 5 Choose **Primary number** or **All details**, and press **Select**.  
A confirmation message appears.

To send the business card as an OTA message, select **Via text message** in step 2.

## • 1-TOUCH DIALING

### Activate 1-touch dialing

- 1 Press **Menu > Settings > Call settings > 1-touch dialing**.
- 2 Scroll to **On** and press **Select**.

### Assign a key to 1-touch dialing

- 1 Select **Menu > Contacts > 1-touch dialing**.
- 2 Scroll to any empty slot and press **Assign**.
- 3 Enter the number (including the area code) or press **Find** to retrieve a number from the contacts list.
- 4 Press **OK**. The entry appears in the slot you have assigned. If the **1-touch dialing** function is off, the phone asks whether you want to activate it. Press **Yes** to activate it.

## Make a call with 1-touch dialing

Press and hold the key to which an entry has been assigned. Your phone dials the entry assigned to the key.

## Change 1-touch dialing numbers

- 1 Select **Menu > Contacts > 1-touch dialing**.
- 2 Scroll to the 1-touch dialing entry you wish to change and select **Options > Change**.
- 3 Enter the new number, or press **Find** to retrieve a number from the Contacts list, and press **OK**.
- 4 Enter a name for the entry and press **OK**.

## Delete 1-touch dialing numbers

- 1 Select **Menu > Contacts > 1-touch dialing**.
- 2 Scroll to the 1-touch dialing location you wish to erase and select **Options > Delete**. You're asked to confirm the erasure.
- 3 Press **OK** to erase the key assignment.

## • VOICE DIALING

Your phone's voice dialing feature allows handsfree operation while you place a call. Before using this feature, you need to create entries in the contacts list so you can associate a voice tag with a name and number.

## Add a voice tag to a contact

To create contacts, see "Saving names and phone numbers (Add Contacts)" on page 48.

- 1 Search for the name and number you want to give a voice tag.
- 2 Select **Details > Options > Add voice tag** appears highlighted.
- 3 The phone displays **Press Start, then speak after tone**.
- 4 Press **Start**.  
You will hear several beeps, and **Please speak now** appears.
- 5 Speak clearly into the microphone.



**Note:** Do not press **Quit** unless you want to cancel the recording.

The phone automatically stops recording, then saves and replays the voice tag. If the recording is not successful, your phone displays **Voice system error**. Press **Options**, scroll to **Add voice tag**, and repeat steps 3–5.




**Warning:** Do not rely only on a voice tag for dialing emergency numbers. In emergencies, stress causes changes in your voice, which may keep the phone from recognizing the command.



## Notes about voice tags


Before using voice dialing, note the following:

- Voice tags are not language-dependent. They are dependent on the speaker's voice.
- Voice tags are sensitive to background noise. Record them and make calls in a quiet environment.
- When recording a voice tag or making a call by saying a voice tag, hold the phone in the normal position near to your ear.
- Very short names are not accepted. Use long names and avoid similar names for different numbers.

 **Note:** You must say the name exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice dialing in all circumstances.

## Make a call using a voice tag

 **Note:** Using the right selection key () to make a voice tag call will work regardless of whether **Contacts** or **Go to** is assigned to the right selection key.

- 1 Press and hold , or press and hold the down volume key.  
When you hear several beeps and **Please speak now** appears, release the button.
- 2 Pronounce the voice tag clearly into the microphone. **Searching** appears. When the phone finds the voice tag, **Found** appears, and the phone automatically dials the number.  
If the phone does not locate a number, **No match found** appears and you return to the start screen.

## Voice dial with the headset

After you have assigned voice tags to those entries you wish to dial, you can also voice dial a number using a headset. (See "Enhancements" on page 110.)

- 1 At the start screen, press and hold the remote button on the headset. Your phone beeps and **Please speak now** appears in the display.
- 2 Pronounce the voice tag into the microphone. When the phone finds the voice tag, **Found** appears, and the phone automatically dials the number.

## Listen to a voice tag

- 1 Select **Menu > Contacts > Voice tags**.
- 2 Scroll to the name with the voice tag you want to hear.
- 3 Select **Options > Playback**.

## Change or delete a voice tag

- 1 Select **Menu > Contacts > Voice tags**.  
Voice tags appear one at a time in alphabetical order.
- 2 Scroll until the voice tag you wish to change or delete appears in the display, then press **Options**.
- 3 Scroll to **Change** or **Delete** and press **Select**.

## • VIEW SERVICE AND OWN NUMBERS

Your wireless provider may have saved your phone's operating number, as well as various information and service numbers to your SIM card. To see this information:

- 1 Select **Menu > Contacts**, scroll to one of the number types in the following table, and press **Select**.
- 2 To view details of any of the number types in the previous table, press **Details** when the number type appears in the display.

Number type	Use this number to...
Service numbers	Contact your wireless provider to obtain service
Own numbers	Display the operating number, or numbers which have been assigned to your phone by your wireless provider

## • CALLER GROUPS

You can add contacts entries to any of five caller groups, and then assign a unique ringing tone or graphic to that group. This lets you identify callers from the group by their unique ringing tone or graphic. A caller group can be as small as one person or as large as your entire Contacts list. Caller groups can be renamed to suit your preference.

### Caller group options


- 1 Select **Menu > Contacts > Caller groups**.  
The following caller groups are available:  
**Family, VIP, Friends, Business, Other**.
- 2 Use the joystick to highlight a group, then press **Select** to display these options:

<b>Rename group</b>	Rename the group to your preference
<b>Group ringing tone</b>	Set the ringing tone for the group
<b>Group logo</b>	Turn on the graphic for the caller group
<b>Group members</b>	Add or remove members from the caller group

## Setup a caller group

- 1 At the start screen, press the joystick up or down to display entries in your Contacts list.



**Tip:** Perform a "quick find" when Contacts entries are displayed by entering the first letter of a name.  appears at the bottom of the display to indicate you're performing a search.

- 2 Scroll to a name to add to a caller group and press **Details**.
- 3 Select **Options > Caller groups**.
- 4 Scroll to the caller group to which you want to add the name and press **Select**. A confirmation message appears in the display.

# 10 Profiles



Your phone has a group of profiles that allow you to personalize the tone settings of your phone and to activate a profile for different events and environments. Available profiles are **Normal**, **Silent**, **Meeting**, **Outdoor**, and **Pager**.

Select **Menu > Profiles**. Scroll to a profile and press **Select**.



- To activate the selected profile, press **Select**.
- To set the profile to be active for a certain amount of time up to 24 hours, select **Timed** and set the end time. When the time set for the profile expires, the previous profile that was not timed, becomes active.
- To personalize the profile, select **Customize**. Select the setting you want to change and make the changes.

The settings can also be changed in the **Tone settings** menu. See "Tone settings" on page 62.

In addition, with **Profile name** you can rename all but the **Normal** profile.



**Tip:** To change the profile quickly in standby mode:

- With the flip closed, press the power key , scroll to the profile you want to activate and press **Select**.
- With the flip open, press , scroll to the profile you want to activate and press **Select**.



# 11 Settings

## • PERSONAL SHORTCUTS

You can program your personal shortcuts list to contain the features that you access most often. The options that you program into the personal shortcuts list are displayed in the **Go to** menu. (See also "Go to" on page 106.)

### Program features into personal shortcuts list

- 1 Select **Menu > Settings > Personal shortcuts > Select Go to options**.  
The list of available functions is shown.
- 2 Scroll to the desired function and press **Mark** to add it to the shortcut list. To remove a function from the list, press **Unmark**.

### Rearrange personal shortcuts list

- 1 Select **Menu > Settings > Personal shortcuts > Organize Go to options**.
- 2 Scroll to the item you want to move, and press **Move**.
- 3 Use the options (**move up/down/to top/to bottom**) to move the selected feature to the place you want.
- 4 Press **Done** when finished, and press **Yes** to save changes.

### Activate personal shortcuts

You can activate the features in your personal shortcut list by using either the right selection key or the **Go to** menu option.

#### RIGHT SELECTION KEY

You must first program the right selection key to display the **Go to** selection instead of the default **Contacts** selection, and then you can use it to activate your personal shortcuts:

- 1 Select **Menu > Settings > Personal shortcuts > Right selection key**.
- 2 Scroll to **Go to**, and press **Select**.
- 3 Press and hold **Back** to return to the start screen.  
Now the right selection key is labeled **Go to**.
- 4 Press **Go to** to display your personal shortcuts list.

#### GO TO MENU

To access personal shortcuts through the **Go to** menu, see "Go to" on page 106.



## • TIME AND DATE SETTINGS

### Clock

Select **Menu > Settings > Time and date settings > Clock**.

Select **Show clock** to show (or **Hide clock** to hide) the time on the top right of the display in standby mode. Select **Set the time** to adjust the clock to the correct time, and select **Time format** to set the 12-hour or 24-hour time format.



**Note:** Features that depend on accurate time settings are **Messages, Call log, Alarm clock, Timed Profiles, Calendar, Screen saver** and **Notes**. Also, if the battery is removed for more than 30 minutes, you may need to reset the time.

### Date

Select **Menu > Settings > Time and date settings > Date**.

Select **Show date** to show (or **Hide date** to hide) the date on the display in the standby mode. Select **Set the date** to adjust the date. You can also select the date format.

### Auto-update of date and time

Select **Menu > Settings > Time and date settings > Auto-update of date & time** (network service). To set the phone to automatically update the time and date according to the current time zone, select **On**. To set the phone to ask for a confirmation before the update, select **Confirm first**.

The automatic update of date and time does not change the time you have set for the alarm clock, calendar, or the alarm notes. They are in local time. Updating may cause some alarms that you have set to expire.

## • CALL SETTINGS





### Call forwarding

Select **Menu > Settings > Call settings > Call forwarding** (network service). With call forwarding, you can direct your incoming calls to another number, for example, to your voice mailbox number. For details, contact your service provider. Forwarding options not supported by your SIM card or your network operator may not be shown.

Select the call forwarding option you require, such as **Forward if busy**, to forward the voice calls when your number is busy or when you reject an incoming call.

To set Call forwarding to on, select **Activate**, then select the timeout after which the call is forwarded if this is available for the call forward option. To set the call forward to off, select **Cancel**. To check whether the call forward is activated or not, select **Check status** if this is available for the forward option. Several forward options may be active at the same time.



## Anykey answer

Select **Menu > Settings > Call settings > Anykey answer**. Select **On** and you can answer an incoming call by briefly pressing any key, except , selection keys  and , and .

## Automatic redial

Select **Menu > Settings > Call settings > Automatic redial**. Select **On** and your phone will make a maximum of 10 attempts to connect the call after an unsuccessful call attempt.

## 1-touch dialing

Select **Menu > Settings > Call settings > 1-touch dialing**. Select **On** and the names and phone numbers assigned to the speed dialing keys, from  to , can be dialed with the flip closed or open by pressing and holding the corresponding number key.

## Call waiting

Select **Menu > Settings > Call settings > Call waiting > Activate**. The network will notify you of an incoming call while you have a call in progress (network service).

## Summary after call

Select **Menu > Settings > Call settings > Summary after call**. Select **On** and after each call the phone will briefly display the duration and cost (network service) of the call.

## Send my caller identity

Select **Menu > Settings, Call settings > Send my caller identity**. Select **Yes** and your phone number will be displayed to the person you are calling (network service). Select **Default** and the setting agreed upon with your service provider is used.

## Line for outgoing calls


Line for outgoing calls is a network service to select the phone line 1 or 2, that is, the subscriber number, for making calls.

Select **Menu > Settings > Call settings > Line for outgoing calls**. If you select **Line 2** and have not subscribed to this network service, you will not be able to make calls. However, calls on both lines can be answered regardless of the selected line.

If supported by your SIM card, you can prevent the line selection by selecting the option **Lock**.

For more information on availability, contact your network operator or service provider.



**Tip:** In standby mode, you can switch from one line to the other by pressing and holding **#** .

## • PHONE SETTINGS

### Language

Select **Menu > Settings > Phone settings > Language**. Select the language for the phone's display texts. If **Automatic** is selected, the phone selects the language according to the information on the SIM card.

### Security keyguard

When the Security keyguard feature is active, a security code must be entered to unlock the keypad. (See "Lock and unlock the keypad" on page 27.)

To activate or deactivate Security keyguard:

- 1 Select **Menu > Settings > Phone settings > Security keyguard**.
- 2 Key in the security code and press **OK**. The Security keyguard code is the same as your security code. (See "Security settings" on page 63.)
- 3 Select **On** or **Off**.



**Note:** You should replace the default security code with a new code as soon as possible. To change the security code, see "Access codes" on page 64.



**Important:** You can still call 911, even with Security keyguard activated. This feature lets you lock your phone with a security code. Please note that even when the keyguard lock is activated, the phone content (except Java applications like e-mail) can be read using Nokia PC Suite when the phone is attached to a computer using data cable.

### Cell info display

Select **Menu > Settings > Phone settings > Cell info display**. Select **On** to set the phone to indicate when it is used in a cellular network based on microcellular network (MCN) technology.

If the **GPRS connection** is set to **Always online**, the cell identity may not be received. In that case, set the **GPRS connection** to **When needed**. See "GPRS connection" on page 86.

### Welcome note

Select **Menu > Settings > Phone settings > Welcome note**. Key in the note you would like to be shown briefly when the phone is switched on. To save the note, select **Options > Save**.

### System selection

Select **Menu > Settings > Phone settings > System selection**. Select **Automatic** and the phone automatically selects one of the cellular networks available in your area.

If you select **Manual**, you can select a network that has a roaming agreement with your home network operator. If **No access** is displayed, you must select another network. The phone stays in manual mode until the automatic mode is selected or another SIM card is inserted into the phone.

## Confirm SIM service actions

See "SIM services" on page 107.

## Help text activation

To set the phone to show or not to show the help texts, select **Menu > Settings > Phone settings > Help text activation**.

See also "Messages" on page 30.

## Start-up tone

To set the phone to play or not to play a start-up tone when the phone is switched on, select **Menu > Settings > Phone settings > Start-up tone**.

## Memory status

This menu item shows you how much memory is being used by features that contain user data. Features include Contacts, Gallery, and Applications.

# • DISPLAY SETTINGS

## Wallpaper

You can set your phone to display a background image, known as wallpaper, when the phone is in standby mode. Some images are presaved in the **Gallery** menu. You can also receive images using multimedia messages, download them using WAP service, or transfer them with PC Suite from your PC and then save them in **Gallery**. Your phone supports JPEG, GIF, BMP, and PNG formats.

## Select wallpaper

- 1 Select **Menu > Settings > Display settings > Wallpaper**.
- 2 Select **Change image** to view the folder list in the **Gallery** menu.
- 3 Open the image folder and scroll to the desired image.
- 4 To set the image as wallpaper, select **Options > Set as wallpaper**.

Note that the wallpaper is not displayed when the phone activates the screen saver.

## Activate or deactivate the wallpaper

Select **Menu > Settings > Display settings > Wallpaper**. To activate or deactivate the wallpaper, select **On** or **Off** respectively.

## Color schemes

You can change the color in some display components, for example, indicators and signal bars.

Select **Menu > Settings > Display settings > Color schemes**. Select the desired color scheme.

## Operator logo

To set your phone to display or hide the operator logo, select **Menu > Settings > Display settings > Operator logo**. If you have not saved the operator logo, the **Operator logo** menu is dimmed.

Note that the operator logo is not displayed when the phone activates the screen saver. For more information on availability of an operator logo using SMS, MMS, or WAP, contact your network operator or your WAP service provider.

## Screen saver timeout

Digital clock screen saver is used for power saving in standby mode. It is activated when no function of the phone has been used for a certain time while the phone's flip is closed. Press any key to deactivate the screen saver or open the flip. The screen saver is also deactivated when the phone is out of the network coverage area.

Select **Menu > Settings > Display settings > Screen saver timeout**. Select the timeout after which the screen saver will be activated. The length of the timeout can vary from 5 seconds to 60 minutes.

Note that until you set the phone's clock, the screen saver shows the time as **00:00**. Also, the screen saver overrides all the graphics and texts on the display in standby mode.

## Display brightness

You can change the display brightness level of the phone display.

Select **Menu > Settings > Display settings > Display brightness**. Move the joystick to the left to decrease and to the right to increase the brightness level, and press **OK** to accept it.

## • TONE SETTINGS

Select **Menu > Settings > Tone settings**. You can find the same settings in the **Profiles** menu, see "Profiles" on page 56. Note that the settings you make will change the settings in the active profile.

Select **Ringing options** to choose how the phone notifies you of an incoming voice call. The options are **Ring**, **Ascending**, **Ring once**, **Beep once**, and **Silent**.

Select **Ringing tone** for incoming voice calls. To select ringing tones that have been saved in the **Gallery**, select **Open gallery** from the ringing tone list.

Select **Ringing volume** and **Vibrating alert** for incoming voice calls and incoming messages. The vibrating alert does not work when the phone is connected to a charger, a desktop stand, or a car kit.



**Tip:** If you receive a ringing tone using OTA or by downloading, you can save the ringing tone in the **Gallery**.

Select **Message alert tone** to set the alert tone for the incoming messages, select **Keypad tones**, or **Warning tones** to set the phone to sound tones, for example, when the battery is running out of power.

Select **Alert for** to set the phone to ring only upon calls from phone numbers that belong to a selected caller group. Scroll to the caller group you want or **All calls** and press **Mark**.

## • ACCESSORY SETTINGS

The **Accessory settings** menu is shown only if the phone is or has been connected to one of the following accessories: a headset, a handsfree unit, or a mobile inductive loopset.

Select **Menu > Settings > Accessory settings**, and then select **Headset**, **Handsfree**, or **Loopset** if the corresponding accessory is or has been connected to the phone.

- Select **Default profile** to select the profile that you want to be automatically activated when you connect to the selected accessory. You can select another profile while the accessory is connected.
- Select **Automatic answer** to set the phone to answer an incoming call automatically after five seconds. If the **Incoming call alert** is set to **Beep once** or **Off**, automatic answer will not be in use.
- Select **Lights** to set the lights permanently to **On**. Select **Automatic** to set the lights on for 15 seconds after a keypress. The **Lights** option is available only when **Handsfree** is selected.

If you want to use a TTY adapter, you must select **Menu > Settings > Accessory settings > TTY/TDD** and change the setting from **No** to **Yes**. If you are not using a TTY adapter, make sure that the **TTY/TDD** option is set to **No** because an active **TTY/TDD** setting may prevent other accessories from functioning properly. For more information on using a TTY adapter, see "Phone adapter HDA-10" on page 116.

## • SECURITY SETTINGS



**Note:** When security features that restrict calls are in use (call restrictions, closed user group, and fixed dialing), calls may be possible to certain emergency numbers in some networks (for example 911 or other official emergency numbers).

Select **Menu > Settings > Security settings**, and then select **PIN code request**, **Call restrictions**, **Fixed dialing**, **Closed user group**, **Security level**, or **Access codes**.

## PIN code request

Sets the phone to ask for your PIN code every time the phone is switched on. Some SIM cards do not allow the PIN code request to be turned off.

## Call restrictions

A network service that lets you restrict calls your phone can make or receive. Check with your service provider for more details.

## Fixed dialing

Restricts your outgoing calls and text messages to selected phone numbers if this function is supported by your SIM card. The PIN2 code is required.

When fixed dialing is on, GPRS connections are not possible except while sending text messages over a GPRS connection. In this case, the recipient's phone number and the message center number must be included in the fixed dialing list.

## Closed user group

A network service that specifies the group of people whom you can call and who can call you. For more information, contact your network operator or service provider.

## Security level

Select **Phone** and the phone will ask for the security code whenever a new SIM card is inserted into the phone. Select **Memory** to set the phone to request the security code when SIM card memory is selected and you want to change the memory in use. See "Selecting settings for contacts" on page 48. To copy from one memory to another, see "Copying contacts" on page 50.

## Access codes

Changes the security code, PIN code, PIN2 code, or restriction password. Codes can include numbers, but not letters.

**Note:** The default security code is 12345. However, Nokia recommends that you change this code immediately.

- **RESTORE FACTORY SETTINGS**

To reset the menu settings to their original values, select **Menu > Settings > Restore factory settings**. Key in the security code and press **OK**. Note that the data you have keyed in or downloaded, for example, the names and phone numbers saved in Contacts are not deleted.

# 12 Organizer



**Warning:** These features, other than the alarm clock, require the phone to be switched on to use the features. Do not switch on the device when wireless phone use may cause interference or danger.

## • ALARM CLOCK

The alarm clock uses the time format set for the clock. The alarm clock works even when the phone is switched off.

### Set the Alarm

- 1 Select **Menu** > **Organizer** > **Alarm clock** > **Alarm time**.
- 2 Key in the alarm time and press **OK**.
- 3 To change the alarm time, select **On**.

### Set the alarm tone

- 1 Select **Menu** > **Organizer** > **Alarm clock** > **Alarm tone**, and select one of the following options:
  - **Standard** - The phone vibrates and sounds a beeping tone while the display light flashes
  - **Radio** - The alarm plays the last radio station you were listening to
  - **Ringing tone** - Select from the ringing tones included in your phone
  - **Open Gallery** - Use a tone stored in the Tones folder

#### STANDARD

Choose **Standard** from the **Alarm tone** menu, and press **Select**.

#### RADIO

Choose **Radio** from the **Alarm tone** menu and press **Select**. Now the alarm will play the last radio station you tuned in.



**Note:** You must connect the phone to a headset or music stand to use the radio as an alarm tone. If you forget, a standard alarm tone sounds.

#### RINGING TONE

- 1 Choose **Ringing tone** from the **Alarm tone** menu, and press **Select**.
- 2 Scroll through the list of ringing tones. Stop briefly to hear a sample of the tone.
- 3 Press **Select** for the tone you want.



## OPEN GALLERY

- 1 Choose **Open gallery** from the **Alarm tone** menu press **Select**.
- 2 Scroll to the **Tones** folder and press **Open**.
- 3 Scroll through the list of tones. Stop briefly to hear a sample of the tone.
- 4 Press **Options**, then **Select** for the tone you want.

## Alarm tone activation

### PHONE ON

When the alarm activates, the phone sounds a tone, **Alarm!** flashes, and the current time appears in the display. The alarm continues for one minute, then stops. After 10 minutes, the alarm sounds again.

Press **Stop** to stop the alarm.

OR

Press **Snooze**. The alarm stops for about ten minutes and then resumes.

### PHONE OFF

The phone switches on and starts sounding the alarm tone. If you press **Stop**, the message **Switch the phone on?** appears, asking if you want to activate the phone for calls. Press **No** to switch off the phone or **Yes** to make and receive calls.



**Note:** Do not press **Yes** when wireless phone use is prohibited or when it may cause interference or danger.

## • CALENDAR

The calendar helps you to keep track of reminders, calls that you need to make, meetings, and birthdays.

Select **Menu > Organizer > Calendar**.



**Tip:** To quickly view the current calendar month, move the joystick to the right in standby mode.

Scroll to the day you want. The current day is indicated by a frame around the day. If there are any notes set for the day, the day appears in bold type. To view the day notes, select **Options > View day**.

To view a single note, scroll to the note you want to view, select **Options > View**. The note view allows you to view the details of the selected note. You can scroll through the note.

## Calendar view options

- Options for making a note, sending a note using IR, sending as a note directly to another phone's calendar, sending as a text message.
- Options for deleting, editing, moving, and repeating a note and for copying a note to another day.
- **Settings** to set the date, time, date, time format, or the first day of the week. In the **Auto-delete** option you can set the phone to delete old notes automatically after a specified time. However, the repeated notes, for example, birthday notes, will not be deleted.

## Calendar notes


For keying in letters and numbers, see "Writing text" on page 26.


- 1 Select **Menu > Organizer > Calendar**.


OR


In standby mode, move the joystick to the right. The monthly view appears.


- 2 Scroll to the date you want, select **Options > Make a note**. Select one of the following note types:


 **Meeting**. Key in the note, select **Options > Save** (or search for the name in Contacts and press **Select**). Key in the location of the meeting, and select **Options > Save**. Key in the start time for the meeting and press **OK**; then key in the end time and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone), then set the alarm time.

 **Call**. Key in the phone number, select **Options > Save**. Key in the name, select **Options > Save**. (Instead of keying in the phone number, you can search for the name and number in Contacts). Then key in the time for the call and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone), then set the alarm time.



 **Birthday**. Key in the person's name (or press **Options**, search for it in Contacts, and press **Select**), select **Options > Save**. Then key in the year of birth, and press **OK**. To set the alarm for the note, select **With tone** or **Silent**, and then set the alarm time.

 **Memo**. Key in the note, select **Options > Save** (or search for the name in Contacts and press **Select**). Key in the end day for the note and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone), then set the alarm time.

 **Reminder**. Key in the subject for the reminder, select **Options > Save** (or search for the name in Contacts, and press **Select**). To set the alarm for the note, select **Alarm on**, then set the alarm time.

When you have set the alarm, the indicator  is displayed when you view the notes.

## Alarm tone for a note

The phone beeps, and displays the note. With a call note  on the display, you can call the displayed number by pressing . To stop the alarm and view the note, press **View**. To stop the alarm without viewing the note, press **Exit**.

## • TO-DO LIST

You can save a to-do note for a task, select a priority level for the to-do note, and mark it as done when complete. You can sort the to-do notes by priority or by deadline.

To add a To-do note:

**1** Select **Menu > Organizer > To-do list**.

**2** Select **Options > Add**.

The **Subject** box appears.

**3** Key in the to-do note.

When you reach the maximum number of characters for a to-do note, no further characters are accepted.

**4** Select **Options > Save**.

**5** Select the priority for the to-do note: **High, Medium or Low**.

The phone automatically sets the due date for the note as two weeks ahead of the current date.

You can view and delete the selected note and delete all the notes that you have marked as done. You can sort notes by priority, send them to another phone, save them as calendar notes, or access the calendar. While viewing a note, you can also select an option to edit the selected note, edit the deadline or priority for the note, or mark the note as done.

# 13 Notes



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

You can use the Notes application for writing and sending notes using IR, SMS or as a multimedia message.

**1** Select **Menu > Notes**.

OR

Type any letter when the messaging keyboard is open.

**2** Select **Options > Make a note**. See "Writing text" on page 26.

**3** Key in the note and select **Save**.

You can insert the current time and date into the note. If there is not enough space to insert them into the note, the phone will ask you to delete the required number of characters from your note.


You can also save a note as a memo in the calendar. If the note is too long, the text will be truncated. If the calendar memory is full, you cannot save the note to the calendar.

You can also send the note using IR, multimedia, or as a text message.

The other options for the note include options for viewing, deleting, and editing a note.

# 14 Radio




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

The quality of the radio broadcast depends on the radio station's coverage in that particular area.

## • TURN THE RADIO ON

- 1 Connect a headset.

-  **Note:** The headset wire is also the radio's antenna, so you must have a headset connected to the phone before using the radio.

- 2 Select **Menu > Radio**.

**Radio on** appears, then, if no frequencies are saved, **87.5 MHz** appears.

- 3 Press **Options**.

## • SET A FREQUENCY

You can set frequencies by directly entering the number, manual tuning, or automatic tuning.

### Direct entry

- 1 Scroll to **Set frequency** and press **Select**.

- 2 Enter the frequency number and press **OK**.

For example, to enter 98.7, press 0,9,8,7. The cursor automatically moves to the correct places and enters the numbers.

After you press **OK**, **Frequency set** appears briefly, followed by the frequency number.

### Manual search

- 1 Scroll to **Manual tuning** and press **Select**.

- 2 Press  up or down until you hear the radio station you want.  
Press and hold  to rapidly search the frequencies.

- 3 Press **OK**.

**Frequency set** appears.

### Automatic tuning

- 1 Scroll to **Auto-tuning** and press **Select**.

- 2 Press  up or down.  
The radio automatically seeks and stops on the next active frequency.
- 3 Press **OK**.  
**Frequency set** appears, followed by the frequency number.

## Save frequencies in phone memory

You can store up to 20 frequencies in the phone's memory for quick recall later.

- 1 With the frequency displayed on the screen, press **Options**.
- 2 Scroll to **Save channel** and press **Select**.  
The **Channel name** box appears.
- 3 Key in a name for the channel, and press **OK**.  
For example, KWCR.  
**Select channel location** appears followed by a numbered list.
- 4 The next open channel location number appears.  
OR  
Scroll to the channel location number you want and press **Select**.  
A confirmation message appears.

## Recall a stored frequency

Select **Menu > Radio**.

**Radio on** appears and you hear the last station you were tuned to.

## • CHANGE CHANNELS

### With the keypad

While in the **Radio** menu, press  up or down to select another station.

OR

Press the channel location number of the station you want to hear.

### With the headset

Briefly press and release the headset button to move up to the next channel.

## • LISTEN TO THE RADIO WITH THE LOUDSPEAKER

- 1 Connect a headset and select **Menu > Radio** to turn the radio on.
- 2 Select **Options > Loudspeaker**.
- 3 Adjust the volume with the volume keys on the side of the phone.

## • ADJUST THE VOLUME

Use the volume key on the side of the phone to adjust volume for both the headset and the loudspeaker. See "Understand your phone" on page 7.

## • CHOOSE STEREO OR MONO

- 1 While listening to a frequency, press **Options**.
- 2 Scroll through the menu to **Stereo output**, and press **Select**. The radio is set to provide audio in stereo.

OR


Scroll to **Mono output**, and press **Select**.

## • HANDLE CALLS WHILE LISTENING TO THE RADIO

### Incoming calls

When you get an incoming call, the radio is muted. Answer the call as normal. (See "Call functions" on page 21.) When you end the call, the radio automatically turns on again, with the same frequency and volume setting as set before the call.

### Outgoing calls

All functions for placing outgoing calls are available, including voice dialing (See "Call functions" on page 21 and "Voice dialing" on page 52.) The radio remains on until you press  to make the call. If using voice dialing, the radio is muted as soon as you press and hold **Names**. When you end the call, the radio automatically turns on again, with the frequency and volume settings unchanged.



**Important:** You cannot turn on the radio during a call.

### Incoming messages

When you get an incoming text, e-mail, or fax message, the radio is muted briefly by the incoming message tone (depending on the profile you have set). The radio stays on while you access all the incoming message functions.

When an application using a GPRS or CSD connection is sending or receiving data, it may interfere with the radio.

### Voice commands

The voice commands feature lets you control some radio functions with your voice. Radio functions include "On," "Off," "Next channel," and "Previous channel." See "Voice commands" on page 80 for more information.

# 15 Gallery



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

You can save pictures and ringing tones to folders in the gallery, or create folders of your own and save them there. You must subscribe to a WAP service through your wireless provider in order to download images and tones. Also, you can save images and ringing tones, for example, that have been received in multimedia messages, in the folders of the gallery, see "Reading and replying to a multimedia message" on page 37.

- 1 Select **Menu > Gallery**. The list of options is shown.
- 2 Select **View folders** to open the list of folders.

Other available options are:

**Add folder.** Key in a name for the folder and press **OK**.

**Delete folder.** Select the folder you want to delete. You cannot delete the folders that were preprogrammed in the phone.

**Rename folder.** Select the folder you want to rename. You cannot rename the folders that were originally on the phone.

**Gallery downloads.** Store images and tones you have downloaded received from messaging or the Internet. Select **Image downloads** or **Tone downloads** respectively. The list of available WAP bookmarks is shown. Select **More bookmarks** to access the list of WAP bookmarks in the **Services** menu, see "Use bookmarks" on page 93.

Select the appropriate bookmark to connect to the desired WAP site. If the connection fails, you may not be able to access the WAP page from the WAP service, whose connection settings are currently active. In this case, enter the **Services** menu and activate another set of service settings. See "Use browser options" on page 91. Try again to connect to the WAP site.

For the availability of different WAP services, pricing and tariffs, contact your network operator and/or the WAP service provider.

- 3 Open the desired folder and the list of files in the folder is shown. **Graphics** and **Tones** are the original folders in the phone.




- 4 Scroll to the desired file and press **Options**. The following options are available:
  - Open** to open the selected file.
  - Delete** to delete the selected file.
  - Move** to move a file to another folder.
  - Rename** to give a new name to the file.
  - Set as wallpaper** to set the selected file as wallpaper.
  - Set as ring tone** to set the selected file as the ringing tone.
  - Details** to see the details of the file, for example, the size of the file.
  - Sort** to sort the files and folders by date, type, name or size.

# 16 Games




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

## • LAUNCHING A GAME

- 1 Select **Menu > Games > Select game**.
- 2 Scroll to a game or a game set (the name depends on the game).
- 3 Select **Options > Open**, or press .

If the selection is a single game it will be launched.

Otherwise, a list of games in the selected game set is displayed. To launch a single game, scroll to the desired game, select **Options > Open** or press .

Note that running some games may consume the phone's battery faster. You may need to connect the phone to the charger.

## • GAME DOWNLOADS

Select **Menu > Games > Game downloads**. The list of available WAP bookmarks is shown. Select **More bookmarks** to access the list of WAP bookmarks in the **Services** menu.

Select the appropriate bookmark to connect to the desired WAP site. If the connection fails, you may not be able to access the WAP site from the WAP service, whose connection settings are currently active. In this case, enter the **Services** menu and activate another set of service settings. See "Use browser options" on page 91. Try again to connect to the WAP site.

For the availability of different WAP services, pricing and tariffs, contact your network operator or the WAP service provider.

Note that when downloading a game or an application, it may be saved in the **Applications** menu instead of the **Games** menu.



**Warning:** Only install software from sources that offer adequate protection against viruses and other harmful software.

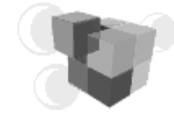
## • MEMORY STATUS FOR GAMES

To view the amount of memory available for game and application installations, select **Menu > Games > Memory**.

## • GAME SETTINGS

Select **Menu > Games > Settings** to set sounds, lights and shakes for the game.

# 17 Applications



**Note:** The phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

With the **Applications** menu you can manage the Java applications installed on your phone. Your phone includes some Java applications specially designed for this phone. Various service providers offer other applications using WAP services, or they can be downloaded to your phone from a personal computer using a data cable or IR connection.

## • LAUNCH AN APPLICATION

- 1 At the start screen, select **Menu > Applications > Select application**.  
One or more applications appear in the display.
- 2 Scroll to an application and select **Options > Open**.  
If the selection is a single application it launches. Otherwise, a list of applications in the selected application set appears.
- 3 To launch a single application within the set, scroll to the desired application, select **Options > Open**.

## • APPLICATION OPTIONS

Option	Function
<b>Open</b>	Starts the application.
<b>Delete</b>	Deletes the application or application set from your phone.
<b>Web access</b>	Provides options for restricting network access: <b>Ask first</b> (ask for net access) <b>Allowed</b> (allow net access) <b>Not allowed</b> (refuses net access)
<b>Update version</b>	Checks if a new version of the application is available for download.
<b>Service settings</b>	Lets you specify settings for applications requiring specific network settings.
<b>Details</b>	Shows additional information about the application.

## • DOWNLOAD APPLICATIONS

You can download new Java applications in different ways.



**Warning:** Only install software from sources that offer adequate protection against viruses and other harmful software.

### Application downloads

- 1 At the start screen, select **Menu > Applications > App. downloads**.  
After a brief pause, the list of available WAP bookmarks appears in the display.
- 2 Scroll to the appropriate bookmark that contains the application you wish to download, and press **Select** to connect to the WAP page. See "Navigate the wireless Internet" on page 92 for information on browsing WAP pages.
- 3 Scroll to **More bookmarks** (if necessary) and press **Select** to access the list of WAP bookmarks in your **Services** menu.

### Game downloads

See "Game downloads" on page 75.

### PC Suite

Use the Java Application installer from PC Suite to download the applications in your phone.



**Note:** Only install software from sources that you trust.



**Note:** When you download a game or an application, it may be saved in the **Games** menu instead of the **Applications** menu.

## • MEMORY STATUS FOR APPLICATIONS

You can view the size of memory available for game and application installations.

At the start screen, select **Menu > Applications > Memory**. After a brief pause, the amount of free memory appears in the display.

# 18 Extras



**Note:** Your phone must be switched on to use the functions in **Extras** menu. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

## • CALCULATOR

The calculator in your phone adds, subtracts, multiplies, divides, calculates the square and the square root, and converts currency values.

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

- 1 Select **Menu > Extras > Calculator**.
- 2 When **0** is displayed on the screen, key in the first number in the calculation, and press **#<sup>^</sup>** for a decimal point or the corresponding decimal symbol on the keyboard, if the flip is open.
- 3 Press **Options**, then select **Add, Subtract, Multiply, Divide, Square, Square root, or Change sign**.

If the flip is open, you can also use the corresponding calculation symbols of the keyboard, if available.



**Tip:** Alternatively, press **\*+\*** once to add, twice to subtract, three times to multiply, or four times to divide, if you use the calculator with the flip closed.

- 4 Key in the second number.
- 5 For a total, select **Options > Equals**. Repeat steps 3–5 as many times as is necessary.
- 6 To start a new calculation, press and hold **Clear**.

## Performing a currency conversion

- 1 Select **Menu > Extras > Calculator**.
- 2 To save the exchange rate, select **Options > Exchange rate**.  
Select either of the displayed options.
- 3 Key in the exchange rate, press **#<sup>^</sup>** for a decimal point, and press **OK**.  
The exchange rate remains in the memory until you replace it with another one.
- 4 To perform the currency conversion, key in the amount to be converted, press **Options**, and select **To home** or **To foreign**.

You can also perform the currency conversion in standby mode. Key in the amount to be converted, press **Options**, and select **To home** or **To foreign**.

## • VOICE RECORDER

You can use the voice recorder feature when you want to record personal notes or reminders, or when you want to record an active phone conversation.



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

### Record a memo

- 1 Select **Menu > Extras > Voice recorder**.  
**Record** appears highlighted.
- 2 To begin recording, scroll to **Record**, then press **Select**.
- 3 Clearly state your note; when you are finished, press **Stop**.  
The **Title** box appears on the screen with the word **Recording**.
- 4 Key in a name for the recording and press **OK** to save it.  
**Recording saved** appears on the screen.

If you do not want to save the recording, then follow these steps:

- 1 Press **Clear** to erase the name, then press **Back**.  
**Recording will not be not saved. Continue?** appears on the screen.
- 2 Press **OK**.

### Record a phone conversation



**Note:** Obey all applicable local laws governing recording of calls. Do not use this feature illegally.

- 1 Place the call.
- 2 While in the call, press **Options**.
- 3 Scroll to **Record**, then press **Select**.  
While you are recording, the screen shows the amount of time left, and you hear a soft beep every 5 seconds.
- 4 When you are finished, press **Stop**.  
**Recording saved** appears on the screen, and the conversation is automatically saved under the name "Recording." You can edit the name later.

### Audio cues

There are three audio cues to indicate the recording status to both parties in an active phone conversation.

- The start tone plays when recording begins.
- The recording tone plays every 5 seconds while the conversation is being recorded.
- The ending tone signals the end of the recording.

## Listen to or edit a memo

1 To listen to or edit a recorded memo, select **Menu > Extras > Voice recorder > Recordings list**. A list of recordings appears.

2 Scroll to the recording you want, then press **Options**.

A list of options appears:

- Select **Playback** to listen to the memo.
- Select **Edit title** to change the name of a memo. Key in the new name and press **OK**.
- Select **Erase** to delete the memo.

## Set a voice memo alarm

You can set an alarm for a voice memo as a reminder to yourself.



**Note:** Voice memo alarms are played only when the phone is on. There is no snooze function.

1 Select **Menu > Extras > Voice recorder > Recordings list**.

2 Select **Options > Add alarm**.

3 Enter the date and time for the alarm, then press **OK**.

**Alarm added** appears on the display.

## Notes about voice memos

- Available memo length is about 180 seconds, but the maximum length of the memo depends on available memory.
- When the recording tone starts to beep every 2 seconds, you only have 10 seconds left for your voice memo.
- If the memory is full when you try to record a new voice memo, **No space for new recording** appears on the screen. You have the choice to erase an existing voice memo to free up space for the new recording.

## • VOICE COMMANDS

You can command your phone to perform different functions with your voice. Voice commands work similar to voice dialing, so you will need to associate a voice tag with each command.



**Note:** Voice commands cannot be used during a call, or while sending or receiving data using the GPRS connection.

## View available functions

To see which functions in your phone work with voice commands, select **Menu > Extras > Voice commands** and scroll through the list of functions.

Phone feature	Use a voice tag to select a profile or activate a feature
<b>Profiles</b>	Normal
	Silent
	Meeting
	Outdoor
	Pager
<b>Voice mailbox</b>	Call voice mailbox
<b>Radio</b>	Radio on
	Radio off
	Next channel
	Previous channel
<b>Infrared</b>	Activate infrared
<b>Recorder</b>	Record

## Add a voice command

- 1 Select **Menu > Extras > Voice commands**.
- 2 Scroll to the phone function, then press **Select**.
- 3 Scroll to one of the available features, and press **Options**.  
**Add command** appears on the display.
- 4 Press **Select**.  
**Press Start, then speak after tone** appears on the display.
- 5 Press **Start**, and speak the voice tag clearly into the microphone.



**Note:** Do not press **Quit** unless you want to cancel the recording.


The phone replays then saves the recorded tag.




## Activate a voice command

After you associate a voice tag with a phone function, you can issue a command by speaking the voice tag.



**Note:** Using the right selection key (  ) to issue a voice command will work regardless of whether **Contacts** or **Go to** is assigned to the right selection key.


- 1 Choose one of the following three ways to activate a voice command:
  - If you have the headset attached, press and hold the headset button.
  - Press and hold .
  - Press and hold the volume down key.
- 2 When **Please speak now** appears, pronounce the voice tag clearly into the microphone. When the phone finds the tag, **Found** appears, and the command is issued.

## Existing voice command tags

After you have associated a voice tag to a command, you can choose **Playback**, **Change**, or **Erase**.

### PLAY BACK A VOICE COMMAND TAG

- 1 Select **Menu > Extras > Voice commands**.

A list of phone functions appears, with **Profiles** highlighted.
- 2 Scroll to the phone function containing the voice command you want to hear and press **Select**, for example, **Profiles**.
- 3 Scroll to the profile with the voice command you want to hear. Look for the voice tag icon (  ).
- 4 Press **Options**.

**Playback** appears highlighted.
- 5 Press **Select**.

**Playing voice command** appears as the phone plays the command.

### CHANGE OR ERASE A VOICE COMMAND

- 1 At the start screen, select **Menu > Extras > Voice commands**.
- 2 After a brief pause, the list of phone functions appears in the display.
- 3 Scroll to the feature you wish to modify and press **Select**.
- 4 When the command you wish to modify appears in the display, press **Options**.

- 5 Scroll to **Change** or **Delete** and press **Select**.
  - If you selected **Change**, press **Start**, then record the new tag.
  - If you selected **Delete**, a confirmation message appears. Press **OK** and the tag for the selected command is erased.


## • COUNTDOWN TIMER

Select **Menu > Extras > Countdown timer**. Key in the alarm time in hours and minutes and press **OK**. If you wish, write your own text note, which is displayed when the time expires, and press **OK** to start the countdown timer.

To change the countdown time, select **Change time**, or to stop the timer, select **Stop timer**.

If the alarm time is reached when the phone is in standby mode, the phone sounds a tone and flashes the note text if it is set or else **Countdown time up** appears. Stop the alarm by pressing any key. If no key is pressed, the alarm stops automatically within 30 seconds. To stop the alarm and to delete the text note, press **OK**.

## • STOPWATCH

You can measure time, record intermediate times or lap times using the stopwatch. During timing, the other functions of the phone can be used. To set the stopwatch timing in the background, press .



**Note:** Using the stopwatch consumes the battery and operating time is reduced. Be careful not to let it run in the background when performing other operations with your phone.

## Timing and split timing

- 1 Select **Menu > Extras > Stopwatch > Split timing**. You can select **Continue** if you have set the timing in the background.
- 2 Press **Start** to start timing.
- 3 Press **Split** every time you want to record an intermediate time. The intermediate times are listed below the running time on the display.
- 4 Scroll to view the times.
- 5 Press **Stop** to stop timing.
- 6 Press **Options** and select one of the following options:
  - Start** to start the timing again. The new time is added to the previous one.
  - Save** to save the time. Key in a name for the measured time and press **OK**. If no name is keyed in, the total time is used as the title.
  - Reset** to reset the time without saving it.

## Lap timing

Select **Menu > Extras > Stopwatch > Lap timing**. Press **Start** to start timing and **Lap** to record a lap time. Press **Stop** to stop the lap timing. Press **Options** and you can save the lap times, reset the lap times, or start timing again. Refer to "Timing and split timing" on page 83.

## Viewing and deleting times

Select **Menu > Extras > Stopwatch**.

If the stopwatch is not reset, you can select **Show last time** to view the most recent measured time. Select **View times** and a list of names or final times of the time sets is shown. Select the time set you want to view.

To delete the saved times, select **Delete times**. Select **Delete all** and press **OK**, or select **One by one**, scroll to the times you want to delete, press **Delete** and press **OK**.

# 19 Connectivity



## • INFRARED

You can set up the phone to 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. You can send or receive data such as business cards and calendar notes to or from a compatible phone or data device (for example, a computer) using the IR port of your phone.

Do not point the IR beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 laser product.





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

## Sending and receiving data via IR

- Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices. The preferable distance between the two devices in an IR connection is no more than 2 ft, 7 in (about 80 cm).
- To activate the IR port of your phone to receive data using IR, select **Menu > Connectivity > Infrared**.
- The user of the sending phone selects the desired IR function to start data transfer.

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

## IR connection indicator

- When  is shown continuously, the IR connection is activated and your phone is ready to send or receive data using its IR port.
- When  blinks, your phone is trying to connect to the other device or a connection has been lost.



Note that the IR connection deactivates automatically.

## • GPRS

### GPRS connection

You can set the phone to automatically register to a GPRS network when you switch the phone on. Select **Menu > Connectivity > GPRS > GPRS connection > Always online**. When you start an application using GPRS, the connection between phone and network is established, and data transfer is possible. When you end the application, the GPRS connection is ended but the registration to the GPRS network remains.

If you select **When needed**, the GPRS registration and connection are established when an application using GPRS requires it and is closed when you end the application.

When the GPRS connection is established, the indicator  is shown on the top left of the display. If you receive a call or a text message, or make a call during a GPRS connection, the indicator  will be shown on the top right of the display to indicate that the GPRS connection is suspended (on hold).

Note that your phone supports three simultaneous GPRS connections. For example, you can at the same time browse WAP pages, receive multimedia messages and have an ongoing PC dial-up connection.

### GPRS modem settings

You can connect the phone using an IR or data cable connection to a compatible PC and use the phone as a modem to enable GPRS connectivity from the PC.

Select **Menu > Connectivity, GPRS > GPRS modem settings > Active access point**, and activate the access point you want to use. Select **Edit active access point** to change the access point settings.

- Scroll to **Alias for access point** and press **Select**. Key in the name you would like for the activated access point and press **OK**.
- Scroll to **GPRS access point** and press **Select**. Key in the Access Point Name (APN) and press **OK**.

An APN is needed to establish a connection to a GPRS network. You can obtain the APN from your network operator or service provider.

You can also set the GPRS dial-up service settings (APN) on your PC using the Nokia Modem Options software. See "PC Suite" on page 108. If you have set the settings both on your PC and on your phone, note that the PC settings will be used.

## • SYNCHRONIZATION

You can save your calendar and contacts data in a remote Internet server or in a compatible PC. If you have saved data in the remote Internet server, you can synchronize your phone by starting the synchronization from your phone. You can also synchronize the data in your phone's contacts and calendar to correspond with the data of your PC by starting the synchronization from your PC.

Note that answering an incoming call during synchronization will end the synchronization and you need to start it again.

### Synchronizing from your phone

Before synchronizing from your phone, you may need to do the following:

- Subscribe to a synchronization service. For more information on availability and the synchronization service settings, contact your network operator or service provider.
- Retrieve the synchronization settings from your network operator or service provider.

You may receive the synchronization settings as a text message or you may have to key in the settings manually (see below for more details).

To start the synchronization from your phone:

- 1 Select **Menu > Services > Settings**, and select the connection settings you need for synchronization.

The synchronization settings may differ from the service settings required for WAP browsing. After synchronizing, change your **Settings** back to the previous ones if you want to use other WAP services later.

- 2 Mark the data to be synchronized (see **Data to be synchronized** in "Key in synchronization settings manually" on page 88).

- 3 Select **Menu > Connectivity > Synchronization > Synchronize**.

- 4 The marked data of the active set will be synchronized after confirmation.

Note that synchronizing for the first time may take time up to 30 minutes, if Contacts or calendar are full.

### Save synchronization settings received as text message

When you receive the synchronization settings as a text message, **Synchronization settings received** is displayed.

Select **Options > Details** to view the received settings first, **Save** to save the synchronization settings, or **Discard** to discard them.

## Key in synchronization settings manually

1 Select **Menu > Connectivity > Synchronization > Settings**.

2 Select **Custom. active Internet sync. sett.**

You need to activate the set where you want to save the synchronization settings. A set is a collection of settings required to make a connection to a service.

3 Scroll to the set you wish to activate and press **Activate**.

4 Select **Custom. active Internet sync. sett.**

5 Select each setting one by one and key in all the required settings.

- **Settings' name.** Key in the name for the set and press **OK**.
- **Data to be synchronized.** Mark the data you want to synchronize (**Contacts** or **Calendar**) and press **Done**.
- **Database addresses.** Select **Contacts database** or **Calendar database** to be edited. Key in the name of the database and press **OK**.
- **User name.** Key in the user name and press **OK**.
- **Password.** Key in the password and press **OK**.
- **Synchronization server.** Key in the name of the server and press **OK**.

## Synchronize from your PC

To synchronize Contacts and Calendar from your PC, use either an IR connection or a data cable. You also need to install on your computer the PC Suite software that is designed to work with your phone. Visit the website at [nokia.com/support/phones/6800](http://nokia.com/support/phones/6800). Start the synchronization from your PC using PC Suite. After synchronizing, the data in the phone and the PC are the same.

## 20 Services




Your phone has a built-in browser you can use to connect to selected services on the Internet. You can view weather reports, check news or flight times, view financial information, and much more.

### • SIGN ON TO THE WIRELESS INTERNET



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

Use one of the following methods to connect to the wireless Internet:

- Select **Menu > Services > Home**.
- At the start screen, press and hold the zero (  ) key. The zero key is marked with an Internet symbol so that you can easily locate it and use it to launch your browser. The zero key inside the flip cover can also be used in this way.



When your phone successfully connects to the Internet, your service provider's home page is displayed.

If you see the **Check service settings** message, the phone may not be set up for browsing. Contact your wireless provider to make sure that your phone is configured properly.



**Note:** Your service provider may have requested that certain features not be activated in your phone. If so, they will not appear in the Services menu. Contact your service provider for more information.

### • NOTES ON WIRELESS INTERNET ACCESS

This section gives a brief overview of wireless Internet technology.

#### Technology background

##### XHTML

A technology called HyperText Markup Language (XHTML) is to mobile devices what the World Wide Web (WWW) is to personal computers. XHTML is a relatively new development that provides access to the Internet for mobile users.

Today, most XHTML sites are made up of text and hyperlinks. Some pages even contain low-resolution graphics, or require data input. Your service provider and others are free to design XHTML sites as they choose, so the sites are as variable as Web pages on the Internet.

Internet content on your personal computer is called a "web page." Internet content on your mobile phone is called a "page," or "XHTML card."



## The wireless provider's role

Because wireless Internet content is designed to be viewed from your phone, your wireless provider now becomes your "wireless Internet service provider" as well.

Your wireless provider has probably created a home page and set up your browser to go to this page when you log on to the Internet. Once at your service provider's home page, you may find links to a number of other sites.

## Set up for browsing

It should not be necessary to manually configure the browser on your phone. Normally this is done by your wireless provider once you have subscribed to the feature. Contact your wireless provider if you have problems using the browser.

If it is necessary to enter the settings manually, refer to the following steps.

**1** Select **Menu > Services > Settings > Connection settings**.

**2** Select **Active service settings**.

You need to activate the set where you want to save the service settings. A set is a collection of settings that are required to make a connection to a WAP service.

**3** Scroll to the set that you would like to activate and press **Activate**.

**4** Select **Edit active service settings**.

Select each of the settings one by one and key in all the required settings.

- **Settings' name** - Key in the new name for the connection set and press **OK**.
- **Homepage** - Key in the homepage address of the WAP service that you want to use, and press **OK**.
- **Session mode** - Select **Permanent** or **Temporary**.
- **Connection security** - Select **On** or **Off**.
- When the connection security is **On**, the phone tries to use a secure connection with the WAP service. If a secure connection is not available, the connection will not be made. If you wish to connect anyway, with a non-secure connection, you must set the connection security to **Off**.
- **Data bearer** - Select **GSM data** or **GPRS**.
- **Bearer settings** - Settings for the selected bearer. For pricing, connection speed and other information, contact your network operator or service provider.

### SETTINGS WHEN GSM DATA IS THE SELECTED DATA BEARER

- **Dial-up number** - Key in the phone number and press **OK**.
- **IP address** - Key in the address, and press **OK**. You obtain the IP address from your network operator or service provider.

- **Authentication type** - Select **Secure** or **Normal**.
- **Data call type** - Select **Analogue** or **ISDN**.
- **Data call speed** - Select the speed you want to use, or select **Automatic**. **Automatic** is available only if the current selected data call type is **Analogue**. The actual data call speed depends on the service provider.
- **Login type** - Select **Manual** or **Automatic**.
- **User name** - Key in the user name and press **OK**.
- **Password** - Key in the password and press **OK**.
- **Display terminal window** - Select **Yes**, if you want the server to perform user authentication when you access intranet sites during a dial-up connection.

### SETTINGS WHEN GPRS IS THE SELECTED DATA BEARER

- **GPRS access point** - Key in the access point name and press **OK**.
- An access point name is needed to establish a connection to a GPRS network. You obtain the access point name from your network operator or service provider.
- **IP address** - Key in the address and press **OK**. You obtain the IP address from your network operator or service provider.
- **Authentication type** - Select **Secure** or **Normal**.
- **Login type** - Select **Manual** or **Automatic**. If you select **Automatic**, the login type uses the user name and password keyed in the following settings. If you select **Manual**, the login information is required each time when establishing a connection.
- **User name** - Key in the user name and press **OK**.
- **Password** - Key in the password and press **OK**.

## • USE BROWSER OPTIONS

The **Services** menu gives you the options shown in the following table. Some wireless providers may have customized the options on the **Services** menu. Contact your wireless provider for more information if any of the options shown in the following table are not available.




Choice	What it does
<b>Home</b>	Starts the browser and takes you to your service provider's home page.
<b>Bookmarks</b>	Shows a list of all saved bookmarks. Bookmarks help you find an XHTML site quickly. See "Use bookmarks" on page 93.

Choice	What it does
<b>Download links</b>	Allows you to download content from pre-programmed XHTML sites.
<b>Service inbox</b>	Allows you to receive notifications from your service provider about new e-mail messages, changes in stock prices, and so on.
<b>Settings</b>	Provides options for changing connection settings, appearance settings, cookie settings, and certificates.
<b>Go to address</b>	Accepts an address you enter.
<b>Clear the cache</b>	Empties the browser's temporary memory. It is advisable to empty the cache at the end of each session. See "Clear the cache" on page 94.

## • NAVIGATE THE WIRELESS INTERNET

Since your phone screen is much smaller than a computer screen, Internet content is displayed differently than you may be accustomed to seeing. This section contains guidelines for using phone keys to navigate a XHTML site and examples of how to read an XHTML site.

### General guidelines for using the phone keys

- Use the four-way scroll keys to browse the XHTML site.
- To select a highlighted item, press .
- To enter letters and numbers, press the keys  through .
- To enter special characters, press the \*+ key.

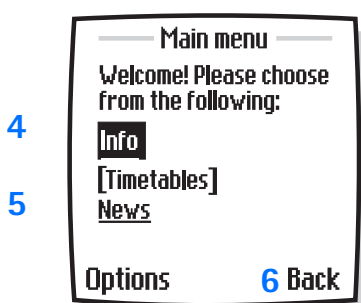
## Examples of wireless Internet sites

The following illustrations show most of the elements you may find on a wireless Internet site. These are examples only.

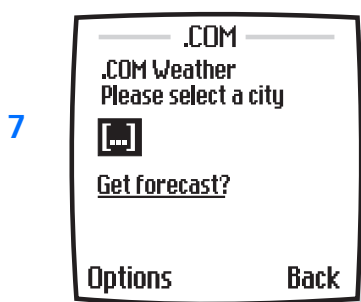


- 1) **Header line**: shows the current Internet site.
- 2) **Active link**: appears as a highlighted word.
- 3) **Inactive link**: appears as an underlined word.

Scroll through the list of links using .



- 4) **Selection list**: Brackets [ ] appear when you have the option to enter information.
- 5) **Options**: Press **Options** to go to the site menu and/or browser page.
- 6) **Back**: Press **Back** to return to the previous page.



- 7) **Data entry field**: Brackets [ ] that enclose dots indicate when you need to enter information. In this example, you can enter your zip code to receive the local weather forecast.



## • USE BOOKMARKS

You can save addresses for your favorite sites as bookmarks. A bookmark helps you find a site again, just as a slip of paper helps you find a page in a book. You can add up to 50 bookmarks to your browser.

### Set a bookmark while browsing

- 1 Select **Menu** > **Services** > **Bookmarks**. After a brief pause, a list of bookmarks (if any) appear in the display.
- 2 Press **Options**, scroll to **New bookmark** (if necessary), and press **Select**.
- 3 Enter an address for the bookmark and press **OK**.
- 4 Enter a title for the bookmark and press **OK**. A message appears in the display confirming your bookmark is saved.

## Disconnect from the Internet

- To quit browsing and end the connection, select **Options > Quit**. When the **Quit browsing?** message appears, press **Yes**.  
OR
- Press . If **GSM data** is the selected data bearer, then press  twice.

## • SECURITY

Security features are required for some WAP services, such as banking services or shopping on a WAP site. For such connections you need security certificates and possibly a security module, which may be available on your SIM card.

The security module can contain certificates as well as private and public keys. The security module provides security services for WAP-related applications and allows you to use a digital signature. The certificates are saved in the security module by the service provider, or they can be downloaded from a WAP site. For more information, contact your service provider.

## Clear the cache

The information or services you have accessed are stored in the cache of your phone. A cache is a buffer memory, which is used to store data temporarily. If you tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use.

- 1 Select **Menu > Services**. After a brief pause, a list of options appear in the display.

OR

If browsing, press **Options**.

- 2 Scroll to **Clear the cache** and press **Select**.

## About authority certificates

To use some XHTML services, such as banking services, you need an authority certificate. Using the certificate can help you to improve the security of connections between your phone and an XHTML server.

You can download the certificate from an XHTML page if the XHTML service supports the use of authority certificates. After the download, you can view the certificate, then save or delete it. If you save the certificate, it is added to the list of certificates in the phone.

Your phone alerts you if the identity of the XHTML server or XHTML gateway cannot be verified or is not authentic.

## View the list of authority certificates

Select **Menu > Services > Settings > Security settings > Authority certificates > Certificate list**. The list of authority certificates is displayed.

# 21 Instant messaging (IM)



You can now take text messaging to the next level by experiencing IM in a wireless environment. You can engage in IM with friends and family, regardless of the mobile system or platform (like the Internet) they are using.

IM is different from using SMS or email because you can have a two-way or group conversation where all messages within the conversation are displayed in one screen as an ongoing dialogue. The contact list feature shows you when your friends, family members, and colleagues are online and available to exchange instant messages. Simply select the name, write the message, and send it. Your message stays on the screen and when your friend, family, or colleague replies, the reply appears on the screen above your original message so that you can track the conversation.



**Note:** If IM is not available from your wireless service provider, the IM feature may not appear as a menu option. Contact your service provider for more information.

## • GETTING STARTED

Before you can start using IM, you must first:

- Subscribe to the text messaging service. Contact your service provider for details.
- Obtain a user name and password. See "User name and password" on page 95 for more information.
- Ensure that your default GPRS connection is set up. See "GPRS" on page 86.

## Display and icons

With IM, you have the choice of selecting the IM service (network) you want to use. Since each IM service has its own display text and icons associated with it, the display text and icons on your phone may appear differently than what is displayed in this user guide. If you have any questions about the differences in the various network display texts and icons, contact your service provider.

## User name and password

Before you can begin to use IM, you must obtain a user name and password. You can do this by registering over the Internet (through your computer) with the IM service provider you have selected to use. During the registration process you will have the opportunity to create the user name and password of your choice. For more information about signing up for IM services, contact your wireless service provider.

## Log in to service

The first time you log in to IM, you must enter your user name and password and select the IM provider you want to use. After the first login, you will not have to select the network again, unless you want to change it. See "IM settings" on page 103 for more information.

Every time you log in, you will receive screen prompts for your user name and password. The user name you entered previously appears on the **User ID** screen; however, you must manually enter your password every time you log in.

To log in for the first time, perform the following steps:

- 1 Select **Menu > IM**.  
**Opening application** appears, followed by the **Inst. messaging** offline menu.
- 2 Select **Login**.  
If this is the first time you have logged in, the **IM provider** screen appears. If this is not the first time you have logged in, the **User ID** screen appears, and you can skip to step 4.
- 3 Select an IM provider.  
A confirmation screen appears, then the **User ID** screen.
- 4 Enter your user name, and select **Options > OK**.  
The **Password** screen appears.
- 5 Enter your password, and select **Options > OK**.  
**Logging in** appears, then **Logged in**, followed by the **Inst. messaging** online menu.  
After you have logged into IM initially, you have the option of a manual login or an automatic login. See "Set up Auto login" on page 104 for information on setting up automatic login.

## Set Availability

You can determine if other users can tell whether you are available or not. To set your availability, perform the following steps:

- 1 From the **Inst. messaging** online menu, select **IM Availability**.
- 2 Select one of the following options:
  - Available**—others see your status as online and you receive availability information and messages from others.
  - Do not disturb**—even though others see your status as online, you do not receive availability information and messages from others.
  - Appear offline**—even though others see your status as offline, you receive availability information and messages from others.

## IM icons

The following list shows the IM icons and their descriptions. The icons and display text may appear differently, depending on which IM service you use.


-  Available
-  Do not disturb/discreet
-  Appear offline
-  Available with an alert set
-  Offline with an alert set
-  Blocked contact
-  Unread message/new message
-  Read message
-  Group invitation

## • CHAT SESSIONS

When you send an instant message to another person you initiate a "chat session." You can send instant messages to anyone if you have the person's user name. You can also add that person to your contact list during an IM session.

To save a contact's IM user ID, see "Add a new contact" on page 99 or "Add a new contact from Conversations" on page 99.

## Chat from Contacts

 **Note:** To select a text input method, see "Traditional text input" on page 28 and "Predictive text input" on page 28.

Perform the following steps to initiate a chat session from your Contacts list:

- 1 From the **Inst. messaging** online menu, select **IM Contacts**.
- 2 Scroll to the contact to whom you want to send an instant message.
- 3 Press **Select > Chat**.

The conversation screen appears with the contact's name at the top. If this is the first message in this IM session, the conversation screen will be empty.

- 4 Select **Options > Write**.

A text entry screen appears with the contact's name displayed above the entry field.

- 5 Enter a message, and select **Options > Send**.

The message is sent and then displayed at the top of the conversation screen.



## Chat from Conversations

You can participate in a chat session from the **Conversations** view as long as an active chat is open or has been saved. See "Save chat history" on page 98 for further information.

- 1 From the **Inst. messaging** online menu, select **Conversations**.
- 2 Scroll to the contact with whom you want to chat.
- 3 Select **Options > Open**.
- 4 Select **Options > Write** and enter a message.
- 5 Select **Options > Send**.

The conversation screen appears with the IM contact's name and most recent message displayed.

- 6 After your contact replies, repeat steps 4–5 to continue your chat session.

## Receive and reply to instant messages

When you receive an instant message, a screen appears to notify you. If the IM application is closed when you receive the notification, you can press **Start** to open IM, and the new message is displayed once the application is open.

If the IM application is already open when you receive a new message, perform the following steps to access and reply to the message:

- 1 Select **Conversations** from the **Inst. messaging** online menu.
- 2 Scroll to the sender's name, and select **Options > Open**.
- 3 Select **Options > Write** to type a reply to the message.
- 4 Select **Options > Send**.

The reply is sent and then displayed in the conversation screen.

## Quit chat session

If you want to end your chat session, perform the following steps:

- 1 Select **Conversations** from the **Inst. messaging** online menu.
- 2 Scroll to the chat session you want to end.
- 3 Select **Options > End convers.**

**Conversation ended** appears.

## Save chat history

If you want to save your chat session (chat history), perform the following steps:

- 1 From the conversation screen, select **Options > Save**.

The **Convers. name** screen appears.

- 2 Enter a name for the conversation and select **Options > Save**.

**Conversation saved** appears.

## View chat history

- 1 From the **Inst. messaging** online or offline menu, select **Saved convers.**
- 2 Select the chat history you want to view.

## Rename chat history

- 1 From the **Inst. messaging** online or offline menu, select **Saved convers.**
- 2 Select the chat history you want to rename.
- 3 Select **Options > Rename.**
- 4 Press **Clear** as many times as necessary to delete the current chat history name, and then enter the new chat history name.
- 5 Select **Options > OK.**  
**Conversation renamed** appears.

## Delete chat history

- 1 From the **Inst. messaging** online or offline menu, select **Saved convers.**
- 2 Select the chat history you want to delete.
- 3 Select **Options > Delete.**  
**Conversation deleted** appears.

## • IM CONTACTS

You can add the names of your friends and family with whom you will be interacting frequently via IM to your contact list.

### Add a new contact

- 1 From the **Inst. messaging** online menu, select **IM Contacts.**
- 2 Press **Select** to open the **Contacts** menu, then select **Add contact.**  
The **User ID** screen appears.
- 3 Enter the contact's user name, and select **Options > OK.**  
The **Nickname** screen appears.
- 4 Enter the contact's nickname, and select **Options > OK.**  
**Updating information** appears, then **Added to IM contacts.**

### Add a new contact from Conversations

You can add a new contact from the **Conversations** list if you have an active or saved IM session with that contact.

- 1 From the **Inst. messaging** online menu, select **Conversations.**
- 2 Scroll to the contact name that you want to add.

**3** Select **Options > Add contact**.

The **User ID** screen appears with the contact's user name displayed.

**4** Select **Options > OK**.

The **Nickname** screen appears, with the contact's nickname displayed. If you want to change the nickname, press **Clear** as many times as necessary to delete the nickname. Then, enter the new nickname.

**5** Select **Options > OK**.

**Updating information** appears, then **Added to IM contacts**.

## Search for a contact

**1** From the **Inst. messaging** online menu, select **IM Contacts**.

**2** Press **Select**, then select **Look up**.

**3** Scroll to one of the following options, then press **Select**:

**Screen name**—Enter the first few characters of the contact's screen name, then select **Options > Search**.

**User ID**—Enter the first few characters of the contact's user name, then select **Options > Search**.

**Phone number**—Enter the first few numbers of contact's phone number, then select **Options > Search**.

**E-mail**—Enter the first few characters of the contact's email address, then select **Options > Search**.

## Remove a contact from the contact list

**1** From the **Inst. messaging** online menu, select **Contacts**.

**2** Scroll to the contact name you want to remove.

**3** Press **Select**, then select **Remove contact**.

A message appears, asking if you want to remove the contact.

**4** Press **OK**.

**Updating information** appears, followed by a confirmation note.

## Block messages from a contact

**1** From the **Inst. messaging** online menu, select **IM Contacts**.

**2** Scroll to the contact from whom you want to block messages.

**3** Press **Select**, then select **Block contact**.

A message appears, asking if you want to block messages from the contact.

**4** Press **OK**.

**Updating information** appears, followed by a confirmation note.

## Unblock messages from a contact

- 1 From the **Inst. messaging** online menu, select **IM Contacts**.
- 2 Scroll to the contact from whom you want to unblock messages.
- 3 Press **Select**, then select **Unblock**.  
A message appears, asking if you want to unblock messages from the contact.
- 4 Press **OK**.  
**Updating information** appears, followed by a confirmation note.

## Set an alert for a contact

You can set an alert for a contact to notify you when the contact's availability changes.

- 1 From the **Inst. messaging** online menu, select **IM Contacts**.
- 2 Scroll to the contact for whom you want to set an alert.
- 3 Press **Select**, scroll to **Set alert** and press **Select**.  
**Alert set** appears.

## Release an alert for a contact

- 1 From the **Inst. messaging** online menu, select **IM Contacts**.
- 2 Scroll to the contact for whom you want to release an alert.
- 3 Press **Select**, scroll to **Remove alert** and press **Select**.  
**User status alert released** appears.

## • GROUP CHAT

The group chat feature allows you to chat with multiple participants simultaneously. You can create your own private chat groups or be invited to join in on a live chat that is already in progress. Group chat participants must be entered in your contact list. (See "IM Contacts" on page 99 for more information.) During a group chat, all participant's messages are displayed in one conversation screen screen.

## Create private chat group

- 1 From the **Inst. messaging** online menu, select **Group convers**.  
The **Group name** screen appears.
- 2 Enter the group name (up to 10 characters), and select **Options > OK**.  
Your screen name appears.
- 3 Select **Options > OK**.  
**Updating information** appears, then a confirmation note, followed by the conversation screen with the group name displayed at the top.

## Add group members



**Note:** Members must be logged in to the IM service before you can add them to a chat group.

- 1 From the group conversation screen, select **Options > Group members**.  
The **Group members** screen is displayed, listing your screen name as the only active participant this group chat.
- 2 Press **Options > Send in...** ("Send invitation").  
The **Contacts** screen is displayed.
- 3 Select the contact whom you want to invite to the group chat.  
The **Invitation** screen appears.
- 4 Enter the invitation text, and select **Options > Send**.  
A confirmation note appears, then the **Group members** screen.
- 5 To add other members to the group, repeat steps 2–4.  
When a member accepts an invitation, a message is displayed in the group conversation screen announcing that the member has joined.

## Chat with group members

All group chat messages are displayed in the group conversation screen. The sender's name is displayed in front of each message to show who sent it. To participate in the group chat, follow these steps:

- 1 From the group conversation screen, select **Options > Write**.  
A text entry screen appears with the last group message displayed above the entry field.
- 2 Enter your message and select **Options > Send**.  
Your message is displayed at the top of the group conversation screen.

If you exit from the group conversation screen while the group chat is still active, you can return to the chat by selecting **Conversations** from the **Inst. messaging** online menu. Scroll to the group chat name, and select **Options > Open**.

## Remove group members

- 1 From the group conversation screen, select **Options > Group members**.
- 2 From the **Group members** list, scroll to the member you want to remove.
- 3 Select **Options > Remove member**.  
The confirmation message **Remove member** appears, and then the group conversation screen is displayed.

## Save a group chat

- 1 From the group conversation screen, select **Options > Save**.  
The **Convers. name** screen appears.
- 2 Enter the name you want to use for the group and select **Options > Save**.  
**Conversation saved** appears.

## Accept or reject invitations to group chat

When you receive an invitation to a group chat, the **New invitation received** screen appears, with the user name of the sender displayed.

### TO ACCEPT

- 1 Press **Accept**.  
The **Screen name** screen appears, with your screen name displayed.
- 2 Select **Options > OK**.  
**Updating information** appears, followed by a confirmation note.

### TO REJECT

Press **Reject**. **Invitation rejected** appears.

## End a group chat

- 1 From the **Inst. messaging** online menu, select **Conversations**.
- 2 Scroll to the group chat name, and select **Options > End convers.**

## • IM SETTINGS

You can customize your IM settings, depending upon the IM service you have selected. After you open IM, select **Settings**. The following options appear in the display: **Screen name**, **Auto login**, **Sort contacts**, **IM availability**, and **Settings**.

### Set up screen name

You can set up or revise a screen name that is 1–20 characters in length.



**Note:** You must enter at least one character for your screen name. A blank screen name is not allowed. You must have a screen name to be able to join a group chat.

- 1 From the **Inst. messaging** online or offline menu, select **Settings > Screen name**.  
The **Screen name** screen appears.
- 2 Enter your screen name, and select **Options > OK**.  
**Screen name saved** appears.

## Set up Auto login

This option allows IM to log you in automatically when you start the application. You can use **Auto login** after you have logged in for the first time with the user name and password provided by your service provider.

From the **Inst. messaging** online or offline menu, select **Settings > Auto login > On IM start-up**.

## Set up Contacts order

You can display your contacts either alphabetically or by status.

From the **Inst. messaging** online or offline menu, select **Settings > Sort contacts > Alphabetic** or **By status**.

## Set up IM availability indicators

The **IM Availability** option allows you and other users to know who is present online and available to chat. You can set your phone to automatically update a contact's availability status every time it is changed.

To set the availability status to an automatic update state, from the **Inst. messaging** online or offline menu, select **Settings > IM availability > Status updates > On**. A confirmation note appears.

To display how your presence is seen by other users, perform the following steps:

- 1 From the **Inst. messaging** online or offline menu, select **Settings > IM availability > Authorization**.
- 2 Select one of the following options:
  - My contacts**—only the contacts in your contact list can view your availability information.
  - All**—anybody can view your availability information.

## Settings

This option allows you to change your User ID, Password, GPRS address, SMS number, Bearer, and Service name.

### • LOG OFF SERVICE

You can either log out of the IM service entirely, or you can close the IM application on your phone but still remain logged in to the IM service. This enables you to receive instant messages and chat invitations from your contacts, even when using your phone for other purposes, for example, if you are making a call or playing a game.

You can still receive instant messages, even when you are logged out of the IM service entirely. If an instant message arrives while you are logged out, a pop-up screen appears telling you that a new item has arrived. You can press **Start** to open the IM application immediately and then log in and check **Conversations**.

If you are logged in to the IM service, but you have not used your IM application for some time, you may be automatically disconnected from the IM service. The next time you open the IM application, **Not logged in** appears, and you will be taken to the offline menu where you can log in again.

To disconnect from the IM service, you must log out from the online menu. You will then be taken to the offline menu, where you can log in again or exit the IM application.

## Exit IM application but stay logged in

- 1 Press **Back** and **Exit** until **Closing application** appears.

The **IM** main menu screen appears.

- 2 Press **Exit**.

If you open the IM application again, you do not need to log in again.

## Log out of IM service

- 1 From the **Inst. messaging** online menu, select **Logout**.

**Logout and end all chat sessions?** appears.

- 2 Press **OK**.

**Logging out** appears, followed by a confirmation note.

- 3 If you want to exit IM, press **Exit** once to close the application and one more time to close the IM main menu screen.



## 22 Go to



The **Go to** menu contains a list of features that you can access quickly. You can customize the **Go to** menu by modifying your personal shortcuts list (see "Personal shortcuts" on page 57).


To activate features in the **Go to** menu, select **Menu > Go to**. Scroll through the list of features and press **Select** to open an item.

You can also program the right selection key to display the **Go to** menu. To do this, see "Right selection key" on page 57.

## 23 SIM services



In addition to the functions available on the phone, your SIM card may provide services that you can access in the **SIM services** menu. This menu is shown only if it is supported by your SIM card. The name and contents of the menu depend entirely on the service available.

 **Note:** For availability, rates and information on using SIM services, contact your SIM card vendor, network operator, service provider, or other vendor.

You can set the phone to show the confirmation messages sent between your phone and the network when you are using the SIM services by selecting the option **Yes** in **Phone settings, Confirm SIM service actions**.

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

# 24 PC Connectivity

You can access the Internet when your phone is connected to a compatible PC using an IR connection or a data cable. You can use your phone with a variety of PC connectivity and data communications applications. With PC Suite you can, for example, send text and picture messages, synchronize Contacts, Calendar, To-do notes, and Notes between your phone and the PC, and manage your WAP bookmarks and connection settings.

You may find more information and downloadable files on the Nokia website, [www.nokia.com/us](http://www.nokia.com/us).

## • PC SUITE

Nokia PC Suite is a collection of powerful tools that you can use to manage your phone's features and data. Depending on which phone you have, your version of PC Suite consists of the following components.

- **Nokia Application Installer** allows you to install Java applications from your PC to your phone.
- **Nokia Image Converter** allows you to convert and optimize graphics for use in MMS messages or for creating desktop wallpaper for your phone.
- **Nokia Sound Converter** allows you to convert general MIDI files for use with MMS messages and as ringing tones for your phone.
- **Nokia Content Copier** allows you to copy data between two Nokia phones, to back up your phone's data to your PC (then restore the data back to your phone), and erase data from your phone.
- **Nokia Phone Editor** allows you to edit your Contacts list and settings from your PC.
- **Nokia PC Sync** allows you to synchronize contacts, calendar, and to-do list items between your phone and PIM applications such as Microsoft Outlook and Lotus Organizer.
- **Nokia Connection Manager** allows you to monitor the serial connection between your phone and PC and switch to a different type of connection (cable, IR, or Bluetooth) when copying data from one phone to another.
- **Nokia Phone Browser** allows you to browse the contents of your phone using Windows Explorer or My Computer.

## • GPRS AND CSD

With your phone you can use GPRS (general packet radio service) and CSD (circuit switched data) data services.

For availability and subscription to high-speed data services, contact your network operator or service provider.

See "GPRS modem settings" on page 86.

## • DATA COMMUNICATION APPLICATIONS

For information on using a data communication application, refer to the documentation provided with it.

- 1 If you use an IR connection, activate the IR connection in the phone. See "Infrared" on page 85. Make sure that the connection is active in your PC.
- 2 If you use the cable DKU-5, connect the cable to the USB port on your computer and to the connector on your phone.
- 3 Start using the data communications application on the computer.

Note that making or answering phone calls during a computer connection is not recommended as it might disrupt the operation.

For a better performance during data calls, place the phone on a stationary surface with the keypad facing downward. Do not move the phone by holding it in your hand during a data call.

# 25 Enhancements

## • SAFETY

A few practical rules for enhancement operation:

- Keep all enhancements out of the reach of small children.
- When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.
- Check regularly that any vehicle-installed enhancements are mounted and are operating properly.
- Installation of any complex car enhancements must be made by qualified personnel only.
- Check the model number of any charger before use with this device. This device is intended for use when supplied with power from ACP-7, ACP-8, ACP-12, LCH-9, or LCH-12.



**Warning:** Use only batteries, chargers and enhancements approved by the phone manufacturer for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

## • CHARGING TIMES

The following table shows battery charging times for the specified charger.

Battery Option	ACP-7 Charger	ACP-12 Charger
BLC-2 Li-Ion 1000 mAh	3 h, 30 min	1 h, 30 min

## Standby and talk times

The times shown in the following table are estimates only and represent a range for either standby or talk times (not a combination of both).



**Warning:** Battery talk and standby times are estimates only and depend on signal strength, network conditions, features used, battery age and condition (including the effect of charging habits), temperatures to which battery is exposed, use in digital mode, and many other factors. Please note that the amount of time a phone is used for calls will affect its standby time. Likewise, the amount of time that the phone is turned on and in standby mode will affect its talk time.



**Note:** Dispose of batteries according to local regulations (for example, recycling). Do not dispose of as household waste.

Refer to the following table for more information on talk-time and standby times in both digital and analog networks.

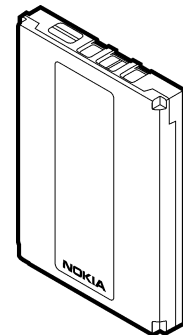
Battery	Talk time	Standby time
BLC-2 Li-Ion 1000 mAh	up to 4.5 hours	up to 10 days

## Battery BLC-2

- 1000 mAh Li-Ion battery
- Internal battery that can be charged by the user
- Laser printed type labels with bar code for traceability

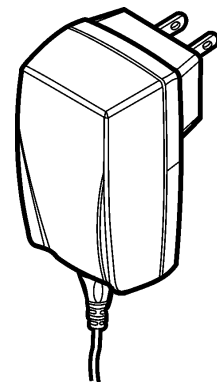


**Note:** Operation times are estimates and may vary depending on network conditions, charging and phone use.



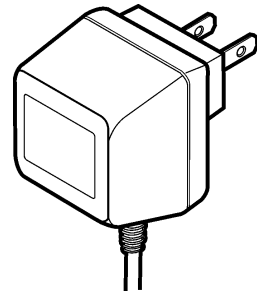
## Rapid travel charger ACP-8

- Fast and efficient way to charge the phone battery
- Multivoltage
- Small, lightweight, and durable



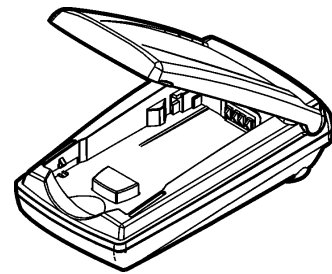
## Standard travel charger ACP-7

- Easy, convenient way to charge the phone
- Small, lightweight, and durable
- Easy to connect to phone or desktop stand



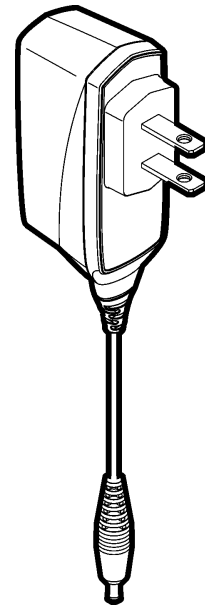
## Battery charging stand DDC-1

- Provides for charging a spare battery so a full power source is always available when needed
- Compatible chargers: ACP-7, ACP-8, ACP-12



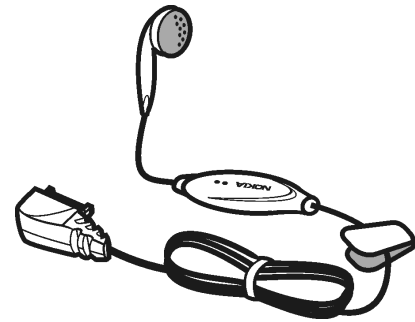
## Travel charger ACP-12

- High performance charger
- Multivoltage (90–264 V)



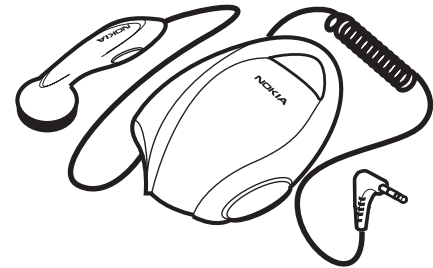
## Headset HS-5

- Basic headset with good audio quality
- Send/end button for convenient use



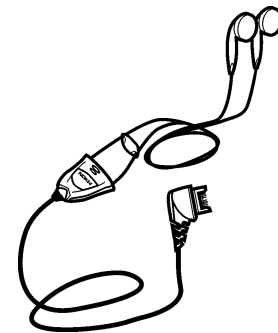
## Retractable headset HS-10

- Unique design with retractable mechanism for cable management
- Microphone and speaker integrated into the earpiece
- Send/end button for convenient use
- Device includes a hook for easy carrying



## Stereo headset HDS-3

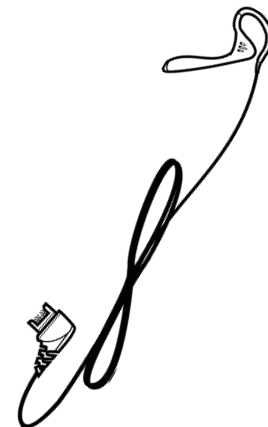
- Stereo headset with microphone and answer/end button
- Provides comfortable handsfree operation and pleasure of listening to the Nokia 6800 phone's FM radio in stereo
- Small and lightweight



**Important:** This headset may affect your ability to hear sounds around you. Do not use this headset in situations that may endanger your safety.

## Boom headset HDB-4

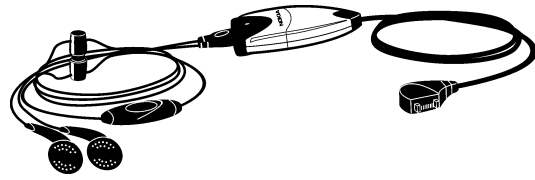
- Basic handsfree functionality with send/end button
- Beautiful and distinctive Nokia design
- Small and lightweight





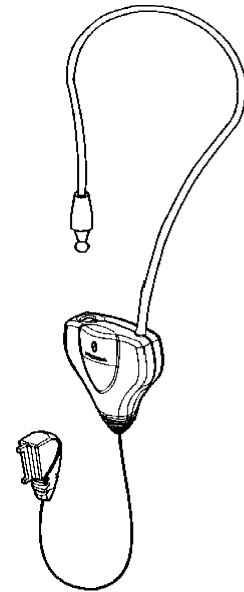
## Camera headset HS-1C

- A single-shot camera with a Pop-port connection to use with your Nokia phone
- Basic handsfree functionality with send/end button
- Small and lightweight



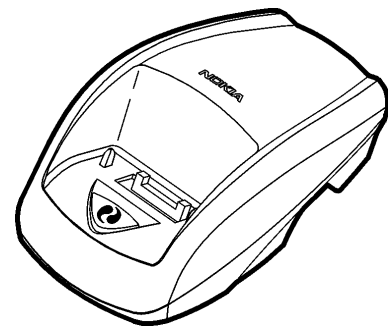
## Inductive loopset LPS-4

- Mobile freedom for hearing aid users
- Handsfree operation without batteries
- Audio input connection



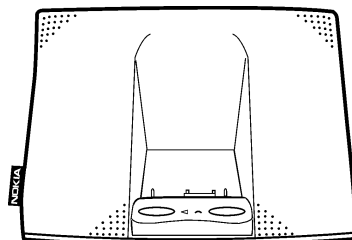
## Connectivity desk stand DCV-14

Provides easy charging and data synchronization with a compatible computer using the Connectivity Adapter Cable DKU-5 (supplied separately).



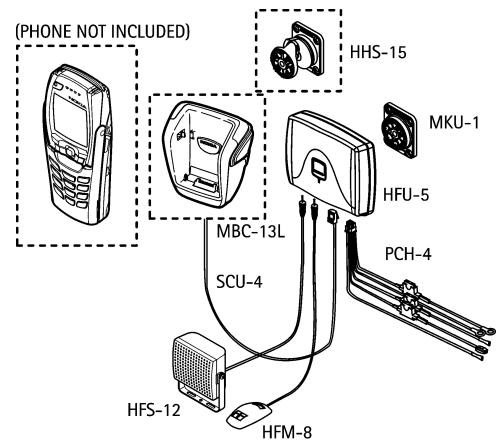
## Music stand DT-1

- Stylish stand with excellent sound quality for phones with built-in radio
- Includes input for external audio devices, handsfree functions, and charging
- Compatible with the ACP-12 charger



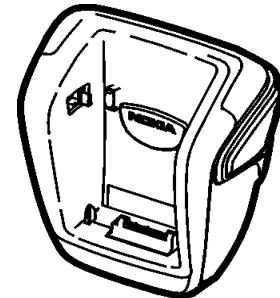
## Full car kit CARK-144

- Full car kit consists of Car installation kit CARK-126, Mobile holder MBC-13L and Swivel mount HHS-15
- Convenient, handsfree usage
- Provides charging for the phone and car radio mute
- Ignition sense
- Phone specific voice dialing features are accessible using car kit



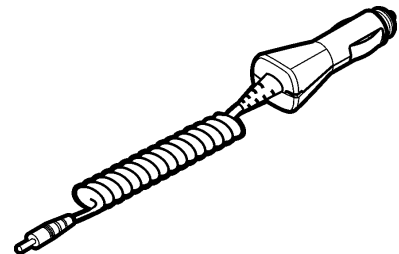
## Mobile holder MBC-13L

- Enables the use of Car installation kit CARK-126.
- Enables use of Mobile charger and/or headset
- Easy to attach to the dashboard with swivel or mounting plate
- Phone specific size



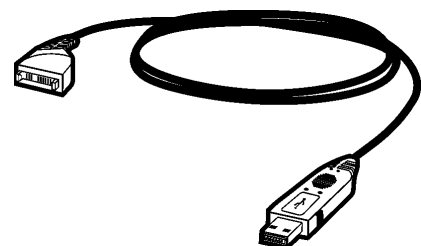
## Mobile charger LCH-12

- High performance charger
- Easy and convenient way to charge the phone battery in a vehicle
- Green LED shows when ready for charging
- Can be used with 12- or 24-V dc systems
- Lightweight and small size—unobtrusive when plugged into the cigarette lighter socket wherever the socket is located



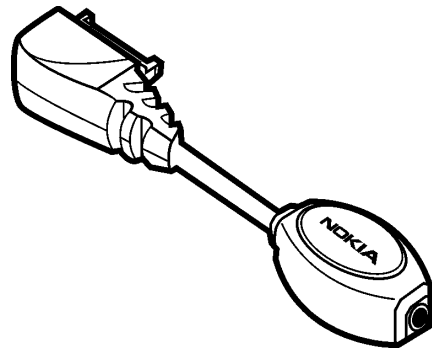
## Data cable DKU-5

- For sending and receiving data from your computer
- Enables data transfer and synchronization with personal computer



## Phone adapter HDA-10

- Plug and play TTY connectivity (TTY must be activated first in the "Accessory settings" menu)
- Plugs into the connector on the bottom of the phone



# 26 Reference information

## • BATTERY STATEMENTS

### Charging and Discharging

Your phone is powered by a rechargeable battery.

Note that a new battery's full performance may be achieved only after two or three complete charge and discharge cycles!

The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.

Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer. Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused, a fully charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge; allow it to cool down or warm up first.

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 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 59°F and 77°F (15°C and 25°C). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire!

Dispose of batteries according to applicable local regulations (for example, recycling). Do not dispose of as household waste.

## • USE PROPER CARE AND MAINTENANCE

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

- Keep the phone and all its parts and enhancements out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside which may damage electronic circuit boards.
- Do not attempt to open the phone. Non expert handling may damage it.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the 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.

All of the above suggestions apply equally to your phone, battery, charger or any enhancement. If any of them are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service. Be sure to back up important data before releasing your phone for service.

## • UNDERSTAND IMPORTANT SAFETY INFORMATION

### Traffic Safety

Do not use a handheld telephone while driving a vehicle. 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.

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.

Use the phone only in its normal operating positions.

## Electronic devices

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

### PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 6 inches (15.3 cm) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- Should always keep the phone more than 6 inches (15.3 cm) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

### HEARING AIDS

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your 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 antiskid/antilock 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 refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress.

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

## Vehicles

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

Check regularly that all 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 enhancements.

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.

FCC regulations prohibit using your phone while in the air. 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, 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. Because of this, connections in all conditions cannot be guaranteed. Therefore you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).



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

To make an emergency call:

- 1 If the phone is not on, switch it on. Check for adequate signal strength.



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

- 2 Press  as many times as needed (for example, to exit a call, to exit a menu, etc.) to clear the display and ready the phone for calls.
- 3 Key in 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, you may first need to turn those features off before you can make an emergency call. Consult this user guide and your local cellular service provider.

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



## CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.\* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 1.20 W/kg, and when worn on the body, as described in this user guide, is 1.02 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of LJPNSB-9.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and that positions the handset a minimum of 5/8 inch (1.5 cm) from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 5/8 inch (1.5 cm) from your body when the phone is switched on.

\*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at **[www.nokia.com/us](http://www.nokia.com/us)**.

## 27 Technical information

Feature	Specification
<b>Weight</b>	4.3 oz (122 g) with BLC-2 1000 mAh Li-Ion Battery
<b>Size</b>	4.67 x 2.15 x .91 in (length, width, thickness)
<b>Frequency range</b>	Lowband 824–849 MHz (TX) 869–894 MHz (RX)  Highband 1850–1910 MHz (TX) 1930–1990 MHz (RX)
<b>Tx output power</b>	Lowband: Up to 2 W Highband: Up to 1 W
<b>Battery voltage</b>	3.6 V nominal
<b>Operating temperature</b>	14°F to +131°F (-10°C to +55°C)
<b><sup>a</sup>Talk time, standby time</b>	Talk-time: up to 4.5 hours Talk-time with speaker: up to 4 hours Stand by time: up to 10 days Radio on with headset: up to 30 hours Radio on with speaker: up to 16 hours

- <sup>a</sup> Battery talk and standby times are estimates only and depend on signal strength, network conditions, features used, battery age and condition (including the effect of charging habits), temperatures to which battery is exposed, use in digital mode, and many other factors. Please note that the amount of time a phone is used for calls will affect its standby time. Likewise, the amount of time that the phone is turned on and in standby mode will affect its talk-time.

# Nokia One-Year Limited Warranty

Nokia Inc. ("Nokia") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

- 1 The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.
- 2 The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.
- 3 The limited warranty extends only to Consumers who purchase the Product in the United States of America.
- 4 During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.
- 5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.
- 6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.
- 7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

- a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.
  - b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or Internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.
  - c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.
  - d) The Product serial number plate or the enhancement data code has been removed, defaced or altered.
  - e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.
- 8** Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:
- a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.
  - b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:  
Nokia Inc., Attn.: Repair Department  
795 West Nasa Blvd.  
Melbourne, FL 32901
  - c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
  - d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

- e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.
  - f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.
- 9** YOU (THE CONSUMER) UNDERSTAND THAT THE PRODUCT MAY CONSIST OF REFURBISHED EQUIPMENT THAT CONTAINS USED COMPONENTS, SOME OF WHICH HAVE BEEN REPROCESSED. The used components comply with Product performance and reliability specifications.
- 10** ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

- 11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.
- 12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.
- 13 This is the entire warranty between the Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
- 14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.
- 15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.
- 16 Questions concerning this limited warranty may be directed to:  
Nokia Inc.  
Attn.: Customer Service  
7725 Woodland Center Blvd., Suite. 150  
Tampa, FL 33614  
Telephone: 1-888-NOKIA-2U (1-888-665-4228)  
Facsimile: (813) 287-6612  
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6452)
- 17 The limited warranty period for Nokia supplied attachments and enhancements is specifically defined within their own warranty cards and packaging.

# Patents

Manufactured or sold under one or more of the following US Patents.  
Asterisk (\*) indicates design patents pending.

4868846	4969192	5001372	5101175	5212834	5230091
5241583	5311179	5331638	5331638	5335362	5384782
5384782	5390223	5396657	5400949	5416435	5442521
5444816	5446364	5479476	5487084	5519885	5526366
5553125	5557639	5581244	5625274	5640395	5664053
5677620	5692032	5699406	5699482	5701392	5729534
5729541	5754976	5760568	5782646	5805301	5827082
5835889	5839101	5844884	5845219	5857151	5862178
5870683	5887266	5889770	5892475	5898925	5907823
5914796	5915440	5917868	5920826	5926138	5926769
5930233	5946651	5956625	5956633	5960389	5963901
5966374	5966378	5970059	5987137	5991716	5991857
6005857	6011853	6014573	6026161	6028567	6029128
6038238	6043760	6047196	6049796	6055439	6060193
6069923	6081534	6084962	6088746	6094587	6097964
6112099	6115617	6118775	6122498	6128322	6128509
6138091	6144243	6144676	6148209	6151507	6163609
6164547	6167248	6170073	6185295	6188909	6195338
6199035	6201876	6240076	6240079	6249584	6266330
6292668	6295286	6310609	6324412	29159800*	29159801*
29159803*	29159804*	29159805*	29159806*		



## NOTES

# Appendix A

## Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones.

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Washington, DC 20036. Phone: (202) 785-0081

*Safety is the most important call you will ever make.*

## **A Guide to Safe and Responsible Wireless Phone Use**

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing.

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

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

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

When it comes to the use of wireless phones, *safety is your most important call.*

### **Wireless Phone "Safety Tips"**

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

- 1 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
- 2 When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
- 3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

- 4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
- 5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
- 6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.
- 7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
- 9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
- 10 Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

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

For more information, please call 1-888-901-SAFE.

For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

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Phone: (202) 785-0081

# Appendix B

## Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones.

July 18, 2001 ..... For updates: <http://www.fda.gov/cdrh/phones>

## Consumer Update on Wireless Phones

U.S. Food and Drug Administration

### 1. Do wireless phones pose a health hazard?

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

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

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

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

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

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

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

The National Institutes of Health participates in some interagency working group activities, as well.

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

and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

### **3. What kinds of phones are the subject of this update?**

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

### **4. What are the results of the research done already?**

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

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

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting



effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

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

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

## **7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?**

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

## **8. What has FDA done to measure the radiofrequency energy coming from wireless phones?**

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

## **9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?**

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

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

## **10. What about children using wireless phones?**

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

## **11. What about wireless phone interference with medical equipment?**

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

## **12. Where can I find additional information?**

For additional information, please refer to the following resources:

- FDA web page on wireless phones  
<http://www.fda.gov/cdrh/phones/index.html>
- Federal Communications Commission (FCC) RF Safety Program  
<http://www.fcc.gov/oet/rfsafety>
- International Commission on Non-Ionizing Radiation Protection  
<http://www.icnirp.de>
- World Health Organization (WHO) International EMF Project  
<http://www.who.int/emf>
- National Radiological Protection Board (UK)  
<http://www.nrp.org.uk/>

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July 18, 2001 For updates: <http://www.fda.gov/cdrh/phones>

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## NOTES