

# NOKIA 3590



## User Guide

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**NOKIA**  
CONNECTING PEOPLE

# Nokia 3590

## User Guide

Phone notes

	Notes	Information source
My number		Wireless provider
Voicemail number		Wireless provider
Wireless provider's Customer Care		Wireless provider
Message Center number		Wireless provider
Model number	3590	Chapter 2 "Welcome"
Phone type	NPM-8	Chapter 2 "Welcome"
Electronic serial number (IMEI)		Chapter 2 "Welcome"
PIN code		Wireless provider Chapter 13 "Manage phone security"

The wireless phone described in this guide is approved for use in GSM networks.

## LEGAL INFORMATION

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## 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.

# TOPICS

# Chapter

For your safety . . . . .	1
Welcome . . . . .	2
Before you begin . . . . .	3
About your phone . . . . .	4
Make and answer calls . . . . .	5
The menu . . . . .	6
Enter letters and numbers . . . . .	7
Use the phone book . . . . .	8
Check call history . . . . .	9
Advanced calling features . . . . .	10
Use voice features . . . . .	11
Personalize your phone . . . . .	12
Manage phone security . . . . .	13
Communicate with mobile messages . . . . .	14
Your WAP browser . . . . .	15
Your personal digital assistant . . . . .	16
Fun and games . . . . .	17
Reference information . . . . .	18
Technical information . . . . .	19
Troubleshooting . . . . .	20
Nokia One-Year Limited Warranty . . . . .	21

## NOTES

# Contents

1	For your safety.....	1
2	Welcome .....	3
	Get the most out of this guide.....	3
	Understand wireless network services.....	4
	Learn about accessibility solutions .....	5
	Contact Nokia .....	7
	Register your phone .....	8
	E-newsletters.....	8
3	Before you begin.....	9
	Install the SIM card.....	9
	Install the battery .....	10
	Charge the battery .....	11
	Battery notes.....	11
	Remove the battery.....	12
	Set up your headset .....	13
	Remove the SIM card .....	14
4	About your phone .....	15
	Keys and features .....	15
	Switch on your phone.....	16
	About the antenna .....	17
	About the Start screen .....	17
	About indicators and icons.....	18

5	Make and answer calls.....	21
	Make a call .....	21
	End a call.....	22
	Answer a call .....	22
	Reject a call .....	22
	Silence an incoming call .....	23
	Redial the last-dialed number.....	23
6	The menu.....	24
	Selection keys.....	24
	Scroll keys.....	24
	Scroll bar.....	24
	About menu shortcuts.....	25
	List of menu shortcuts.....	26
	Phone book menu.....	32
7	Enter letters and numbers.....	33
	ABC mode.....	33
	Predictive text input.....	36
8	Use the phone book.....	40
	Save names, numbers and e-mail addresses .....	40
	Edit names .....	42
	Edit numbers.....	42
	Add text entries .....	42
	Find names in the phone book .....	43
	Your phone's memory.....	44

Erase names and numbers . . . . .	46
9 Check call history . . . . .	48
Check missed, received or dialed calls . . . . .	48
Choose options in call lists . . . . .	49
Clear call lists . . . . .	50
Use call timers . . . . .	50
Manage call costs . . . . .	52
Check data calls . . . . .	52
10 Advanced calling features . . . . .	54
Use in-call options . . . . .	54
Make an international call . . . . .	55
Use automatic redial . . . . .	55
Use 1-touch dialing . . . . .	56
Use anykey answer . . . . .	57
Use network services . . . . .	58
11 Use voice features . . . . .	64
About voice mail . . . . .	64
Use voice dialing . . . . .	66
12 Personalize your phone . . . . .	69
What are profiles? . . . . .	69
Accessory profile settings . . . . .	72
Download profiles . . . . .	75
About polyphonic sound (MIDI) . . . . .	76
Download ringing tones . . . . .	77



Choose the display language . . . . .	78
Add a welcome note . . . . .	78
Activate help text . . . . .	79
Set up the time and date . . . . .	79
Use caller groups . . . . .	81
Restore factory settings . . . . .	83
Change Xpress-on™ color covers . . . . .	84
<b>13 Manage phone security . . . . .</b>	<b>87</b>
Lock the keypad (Keyguard) . . . . .	87
About security codes . . . . .	88
PIN codes . . . . .	89
PUK codes . . . . .	90
Security code . . . . .	90
Use fixed dialing . . . . .	91
Restrict calls . . . . .	92
Set up a closed user group . . . . .	93
<b>14 Communicate with mobile messages . . . . .</b>	<b>94</b>
Message settings . . . . .	94
Send and receive text messages . . . . .	97
Communicate with e-mail . . . . .	101
Chat with other phone users . . . . .	104
Store messages . . . . .	106
Erase messages . . . . .	108
Send and receive picture messages . . . . .	109
Receive multimedia messages (MMS) . . . . .	112

Use the info message service . . . . .	116
Use the service command editor . . . . .	116
<b>15 Your WAP browser . . . . .</b>	<b>117</b>
Notes on mobile Internet access . . . . .	117
Set up for browsing . . . . .	118
Sign on to the mobile Internet . . . . .	118
Use browser options . . . . .	119
Navigate the mobile Internet . . . . .	120
Use bookmarks . . . . .	121
Disconnect from the mobile Internet . . . . .	121
Security issues . . . . .	122
Notes about GPRS . . . . .	123
<b>16 Your personal digital assistant . . . . .</b>	<b>126</b>
Use the calendar . . . . .	126
Use the alarm clock . . . . .	129
Share business cards . . . . .	130
Use the calculator . . . . .	131
<b>17 Fun and games . . . . .</b>	<b>134</b>
Game rules . . . . .	134
Customize your phone with Java™ Applications . .	136
<b>18 Reference information . . . . .</b>	<b>138</b>
Batteries, chargers, and accessories . . . . .	138
Important safety information . . . . .	139
Emergency calls . . . . .	143

Certification Information (SAR) . . . . .	144
Care and maintenance . . . . .	146
Accessories . . . . .	147
Battery information . . . . .	147
Chargers and other accessories . . . . .	149
19 Technical information . . . . .	155
20 Troubleshooting . . . . .	156
21 Nokia One-Year Limited Warranty . . . . .	157
Appendix A	
Message from the CTIA . . . . .	163
Appendix B	
Message from the FDA . . . . .	167
Index . . . . .	173

# 1 For your safety

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



## SWITCH OFF WHERE PROHIBITED

Do not switch on the phone 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 REFUELING

Don't use the phone at a refueling 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.



## ACCESSORIES AND BATTERIES

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



## WATER-RESISTANCE

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



## 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 (for example, to exit a call, to exit a menu) to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.

## 2 Welcome

2

You'll find that your Nokia 3590 mobile phone has many useful features for everyday use, such as a calendar, text messaging, and alarm clock. Review this chapter to find out more about:

- How to use this guide
  - Wireless network services
  - Accessibility solutions
  - How to contact Nokia
- **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.

### Notice text conventions

This user guide provides text clues to help make instructions clear and easy to follow. These clues are called **conventions**.

Convention	What it means
<b>bold</b>	The word or phrase appears on the phone's screen.
<b>bold and blue</b>	The text refers to an address on the World Wide Web.
<i>italic</i>	Italics indicate emphasis. Pay close attention to any information in italics.

## Follow graphic clues

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



**Tip:** Provides information about a shortcut or an alternate method of doing something.



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



**Important:** Alerts you to information critical to using a feature correctly.



**Caution:** Warns you when you may lose information.



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

## Look for updates

From time to time, Nokia updates this user guide to reflect changes or corrections. The latest version may be available online at:

<http://www.nokia.com>

Also, an interactive tutorial may be available online at:

[www.nokiahowto.com](http://www.nokiahowto.com)

## • UNDERSTAND WIRELESS NETWORK SERVICES

A number of features included 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 service provider and obtain instructions for their use from your service provider.

Network services for the Nokia 3590 phone include:

- Voice mail
- Call waiting, call forwarding, and caller ID
- Text and picture messages
- Info Message Service
- Notifications on SIM update
- Cell info display
- Service command editor
- Selected Internet access services
- GPRS services



**Note:** Some networks may not support all language-dependent characters and/or services.

## • LEARN ABOUT ACCESSIBILITY SOLUTIONS

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information, visit the Nokia World Wide Web site:

[www.NokiaAccessibility.com](http://www.NokiaAccessibility.com)

## Alternate format user guides

This user guide is available in alternate formats, including:

- Braille
- Large print
- Audiocassette
- E-text (electronic documents on a 3.5-inch disk, in Microsoft Word or WordPerfect format)

To request any format, call Nokia Customer Care at (888) 665-4228. TTY/TDD users can contact Nokia at (800) 246-6542.



**Note:** Alternate format user guides are available in English.

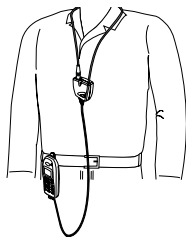


## LPS-3 Mobile Inductive Loopset

The LPS-3 Mobile Loopset gives people with T-coil equipped hearing aids the ability to make and receive calls without noise interference.

Also compatible with the Nokia 3300, 3500, 8200, 8300 and 8800 series digital phones, the loopset gives hearing-impaired users clear access to digital telephony.

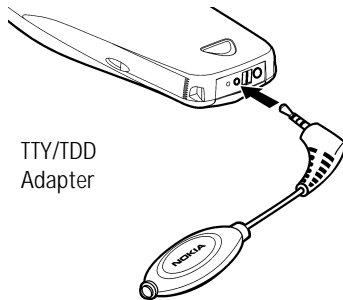
The loopset is easy to use. You wear the loopset around your neck, connect it to your phone, and speak directly toward the microphone. For more information see “Set up the loopset profile” on page 73.



**Note:** The loopset can be purchased separately as an accessory. For operating instructions, refer to the booklet that comes with the LPS-3.

## TTY/TDD Adapter (HDA-9)

The TTY/TDD Adapter is a Nokia accessory that allows you to connect your mobile phone to a Telecommunications Device for the Deaf (TTY/TDD) to make a call in digital mode.



TTY/TDD  
Adapter

### WHAT YOU'LL NEED

In addition to the Nokia 3590 phone, you'll need the following for TTY/TDD communication.

- A TTY/TDD device that is “cellular ready” or “cellular compatible”
- A cable for connecting the TTY/TDD to your phone, usually supplied by the manufacturer of the TTY/TDD device
- The TTY/TDD Adapter (HDA-9), which can be purchased separately as an accessory at [www.nokia.com](http://www.nokia.com)

For information on choosing a profile so that the phone recognizes the TTY/TDD device, see “Set up the TTY/TDD profile” on page 74.

## Accessible features

The Nokia 3590 phone has many accessible features, including:

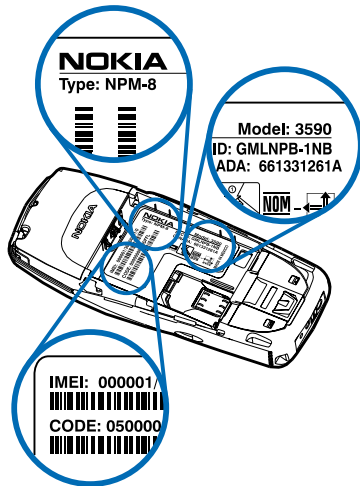
- Ability to send and receive short text messages
- Convenience of one-touch dialing
- Ability to define ring tones for different caller groups
- Voice dialing for handsfree operation

### • CONTACT NOKIA

If you ever need to call Nokia Customer Care or your service provider, you will need to provide specific information about your phone.

This information is provided on the phone's label. The label is on the back of the phone (under the battery). It shows the following:

- Phone type
- Phone model
- IMEI



**Important:** Do not remove or deface the label.



**Tip:** See “Remove the battery” on page 12 for instructions on how to access the phone label.

## Have the phone or accessory handy

Whether you're calling about your phone or an accessory, have the equipment with you when you call. For example, if you're calling about a headset, please have it available. If a Nokia representative asks a specific question about the accessory, you will have it available for quick reference.

Nokia Customer Care Center, USA	Customer Interaction Centre, Canada
Nokia Mobile Phones 7725 Woodland Center Boulevard, Suite #150 Tampa, Florida 33614 Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619 For TTY users: 1-800-24-NOKIA (1-800-246-6542)	Nokia Products Ltd. 601 Westney Rd. South Ajax, Ontario L1S 4N7 Tel: 1-905-427-1373 1-888-22-NOKIA (1-888-226-6542) Fax: 1-905-427-1070 Web site: <a href="http://www.nokia.ca">www.nokia.ca</a>

### • 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, accessory information, and special offers

## 3 Before you begin

Before you begin, you need to prepare your phone by installing the SIM card, and charging the battery. This chapter covers these topics as well as instructions on how to attach the optional headset.

3



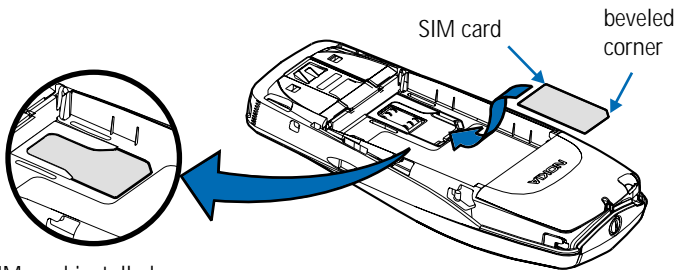
**Note:** Your service provider supplies the SIM card and headset.

### • INSTALL THE SIM CARD



**Important:** Switch off the phone before installing the SIM card.

- 1 With the back of the phone body facing you, locate the SIM card slot.
- 2 Install the SIM card by sliding it gently into the slot:  
beveled corner on the right,  
gold contact area face down.



SIM card installed

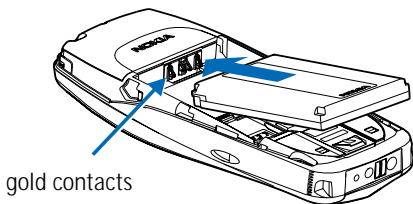
### Notes about SIM cards

- Keep all miniature SIM cards out of the reach of small children.
- The SIM card and its contacts are easily damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

## • INSTALL THE BATTERY

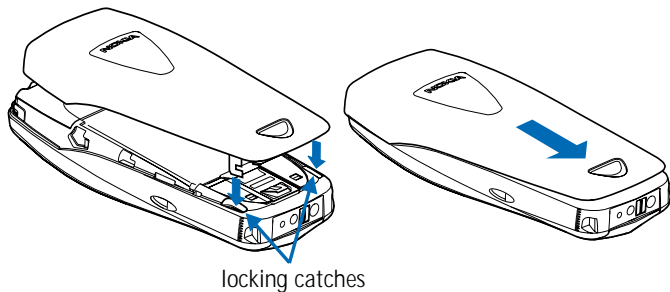
3

- 1 Place the battery in the compartment with the label side facing up and the golden contact area of the battery aligned with the contact prongs inside the phone.
- 2 Slide the battery until it snaps into place.



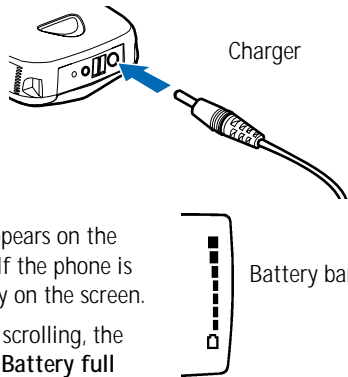
## Replace the back cover

- 1 Direct the back cover towards the locking catches on the phone.
- 2 Slide the back cover until it locks into place.



## • CHARGE THE BATTERY

- 1 Connect the charger to a standard wall outlet.
- 2 Connect the lead from the charger to the bottom of the phone.
- 3 The battery power indicator (or battery bar) appears on the screen and starts scrolling. If the phone is on, **Charging** appears briefly on the screen.
- 4 When the battery bar stops scrolling, the battery charge is complete. **Battery full** appears also, if the phone is on.
- 5 Disconnect the charger from the phone.



## • BATTERY NOTES

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

- Recharge your battery only with a charger approved by Nokia.
- 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.
- Battery operation time may be less than the estimated times during the first charges. This condition is normal.
- When the battery is fully discharged, the scrolling bars may not appear immediately.
- 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 charged. If you leave the phone connected to the charger, the battery receives an additional charge.
- If the battery is completely empty, it may take a few minutes before you can make or receive calls.
- The charging time depends on the charger and battery that you use.



**Note:** The battery will accept a "trickle charge" for an additional two hours. For more details, see "Battery information" on page 147.

## • REMOVE THE BATTERY

If you purchase a new battery or need to access information on the phone's label, you may need to remove the battery.

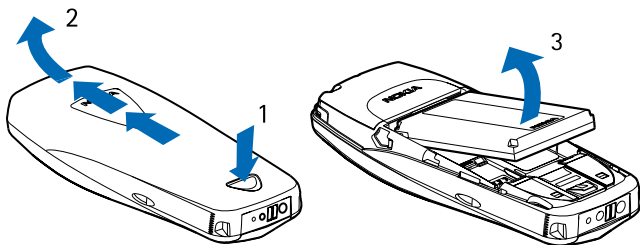


**Important:** Switch off the phone before removing the battery.



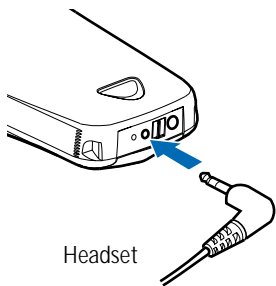
**Important:** Do not puncture or burn the battery. Please recycle or dispose of properly.

- 1 With the back of the phone facing you, press and hold the back cover release button.
- 2 Slide the cover up, then lift it off the phone.
- 3 Lift out the battery.



## • SET UP YOUR HEADSET

Your phone may come with a headset you can use while talking on your phone. The headset provides convenient handsfree use of the phone.





3

### Connect the headset

- 1 Plug the headset jack into the bottom of your phone.
- 2 Put the round ear plug into one ear.

### Use the headset



With the headset connected, you can make and answer calls as usual, using the keypad to press  and  or to enter numbers to call.

The microphone for the headset hangs at the side of your head. Although the microphone may seem far from your mouth, you can speak at a normal volume.



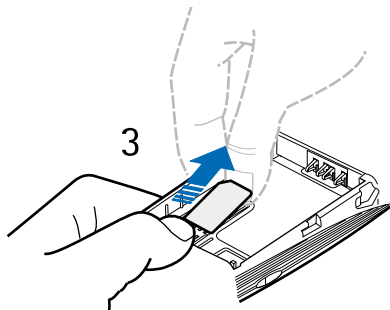
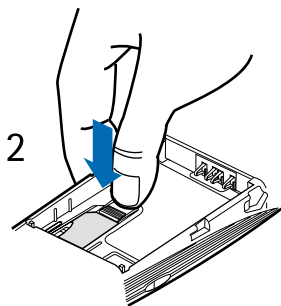
## • REMOVE THE SIM CARD

If you ever need to take the SIM card out of the phone, follow these steps.



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

- 1 Remove the back cover and battery. See “Remove the battery” on page 12.
- 2 Press the plastic tab of the SIM card holder down.
- 3 Gently push the SIM card towards the top of the phone.



# 4 About your phone

## • KEYS AND FEATURES

### Front

#### 1 Power key

If the battery is fully charged, press and hold the power key for about 2 seconds and watch the screen light up.

#### 2 Earpiece

#### 3 Display

#### 4 Selection and scroll keys

Use these keys to move through menus and the phone book.

#### 5 Talk key

Press to make and answer calls.

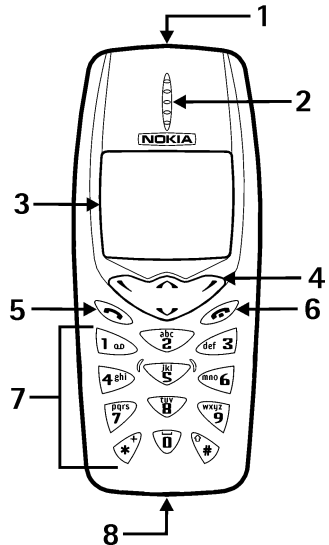
#### 6 End key

Press to end calls or return to the **Start** screen.

#### 7 Number keys

Press to enter phone numbers (when you call) and letters (when you add names to the phone book or write text messages).

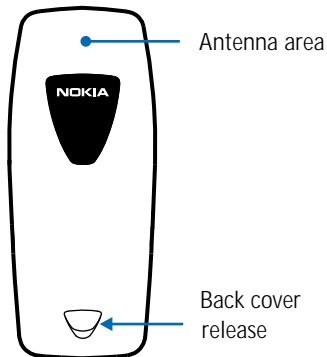
#### 8 Microphone



**Note:** When any key is pressed, the keypad and display lights stay on for up to 15 seconds.

## Back

4



On the back of your phone, you'll find the back cover release button and an internal antenna.

## • SWITCH ON YOUR PHONE

- Press and hold the power key for about 2 seconds.

The phone may ask for a Personal Identification Number (PIN) or a security code. See "About security codes" on page 88 for more information.



**Note:** Your service provider supplies the PIN code.



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

## • ABOUT THE ANTENNA

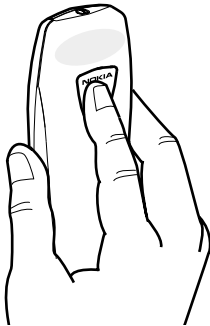


**Tip:** Your phone has a built-in antenna. As with any other radio transmitting device, do *not* touch the antenna unnecessarily when the phone is switched on.

Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.



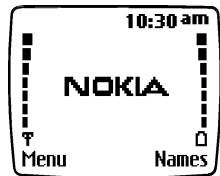
4



Not touching the antenna during a call optimizes the antenna performance and the talk-time of your phone. Normal position: Hold the phone as you would any other telephone, with the antenna area pointed up and over your shoulder.

## • ABOUT THE START SCREEN

When you turn on your phone, the first screen that appears is the **Start** screen. In the middle of the **Start** screen, you may see information indicating which wireless network your phone uses. This information can vary between phones. Other indicators and icons appear on this **Start** screen and are described in the next section.



## • ABOUT INDICATORS AND ICONS

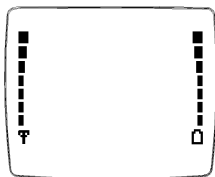
On your phone, you have two types of identifiers: indicators and icons.

4

### Indicators

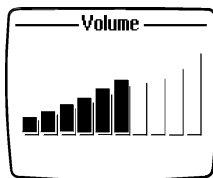
*Indicators* show the status of something. The phone uses three types of indicators:

Signal  
Strength  
Indicator



Battery  
Strength  
Indicator

















- Signal strength indicator: Shows the strength of the signal to your phone.
- Battery strength indicator: Shows how much power is left in your phone's battery.
- Volume indicator: Shows the earpiece volume level. See "Adjust the earpiece volume during a call" on page 22 for details.











### Icons

*Icons* are graphical representations of a specific item or situation. The following table shows examples and tells you what each icon means.

Icon	What it means
	Line 1 is selected for outgoing calls.
	Line 2 is selected for outgoing calls.

Icon	What it means
	You have an active call.
	You have a call on hold.
	You have one or more new voice mail messages.
	You have a new voice mail message on line 1.
	You have new voice mail messages on line 1 and line 2.
	You have a new voice mail message on line 2.
	You have one or more new text messages. If the icon blinks, text message memory is full.
	Keyguard is on. Your phone will not accept any key presses.
	The alarm clock is set.
	The <b>Silent</b> profile is selected.
	The <b>Timed</b> profile is selected.
	Incoming voice calls are being forwarded to another number.
	You have forwarded all voice calls received on line 1.
	You have forwarded all voice calls received on line 2.
	You have forwarded all voice calls received on lines 1 and 2.
	The phone is ready for you to enter a response.

Icon	What it means
	There is a voice tag attached to a name in your phone book.
@	Indicates an e-mail address in your phone book.
	You have assigned the name and number to a caller group.
	The headset is attached to your phone.
	The car kit is attached to your phone.
	The loopset is attached to your phone.
	A Telecommunications Device for the Deaf (TTY/TDD) is attached to your phone.
	The phone book entry is stored on the SIM card.
	You are using predictive text input. Your phone uses a built-in dictionary to predict or guess the word entered.

# 5 Make and answer calls

This chapter tells you how to make and receive calls and how to adjust certain options.

## • MAKE A CALL

5


### Check the signal strength

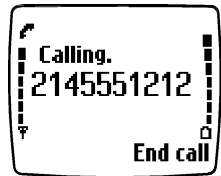
The signal indicator on the left side of your phone's screen shows the strength of the network radio signal. The indicator scrolls as the signal strength increases and decreases. To get the strongest signal, try moving your phone slightly. If you're inside a building, move toward a window.

Signal  
Strength





### Use the keypad

- 1 Enter the area code (if required in your local calling area) and phone number.
- 2 Press .



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

### Use the phone book

- 1 From the **Start** screen, press  or  and scroll to the number you want.





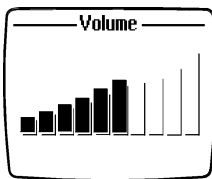
**Tip:** To skip ahead quickly in the list, press the number key that matches the first letter of the name.

- 2 Press  to make the call.



## Adjust the earpiece volume during a call

- To increase the volume of a call, press  and watch the volume indicator go up.
- To decrease the volume, press  and watch the volume indicator go down.




If an accessory with its own loudspeaker is connected to your phone, the volume keys adjust the volume for that accessory.

### • END A CALL

Press .

### • ANSWER A CALL

When someone calls you, the phone alerts you and **Calling** flashes on the display.

To answer, press  OR

Press **Options**, scroll to **Answer call**, then press **Select**.

## Caller ID



**Note:** This feature may not be available in all wireless systems. Contact your service provider for details and availability.

When Caller ID is active, your phone may display the caller's phone number. The caller's name may also appear, if their name and number are stored in the phone book (see "Use the phone book" on page 40).

### • REJECT A CALL

Press  OR

Press **Options**, scroll to **Decline call**, then press **Select**.

- **SILENCE AN INCOMING CALL**

You can stop the ring for an incoming call by pressing **Silence**.



Then, answer or decline the call.

- **REDIAL THE LAST-DIALED NUMBER**

Press  twice.

5

### Dial any of the ten last-dialed numbers

- 1 Press .
- 2 Scroll to the number you want to redial.
- 3 Press  again.

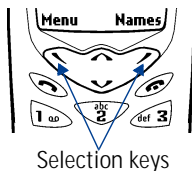
## 6 The menu

Your phone offers many functions that are grouped in menus and submenus. Access these menus with the selection keys and scroll keys, or by entering the appropriate shortcut number.

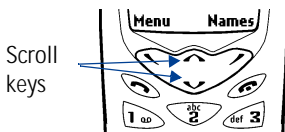
### • SELECTION KEYS

Below the screen, you will find two selection keys. Their functions depend on the text above the keys.

For example, in this screen, the word **Menu** appears above the left selection key. Press the key to enter the menu. To access phone book functions, press the right selection key under **Names**.



### • SCROLL KEYS





Use the scroll keys, located just below the screen, to scroll through your phone's menus and phone book.

### • SCROLL BAR

While you use your phone's menus, a scroll bar appears at the far right of the screen. This bar indicates where you are in the menu. Each numbered "tab" on the bar represents a different menu item.



For example, press **Menu** once. The scroll bar appears with the first (top) tab displayed. A different tab appears each time you press  or .

- **ABOUT MENU SHORTCUTS**

You can use a series of numbers, or shortcuts, to access frequently used features. For example, if you use your phone's alarm clock each morning, you may want to learn the menu shortcut for quick access.

To use a shortcut, press **Menu**, then the numbers that correspond to the feature.



**Tip:** Be sure to press the numbers quickly in sequence.

For example, to set your Alarm clock, press **Menu 4 2 1** (**Settings > Time settings > Alarm clock**). For complete instructions on using this feature, see “Use the alarm clock” on page 129.

## • LIST OF MENU SHORTCUTS

Here is an abbreviated list of menu items and their menu shortcuts. Later chapters tell you how to work with the menus and explain their functions.



**Note:** Some items may not appear due to the SIM card configuration and network service availability.

For quick access to the Messages menu, press **Menu**, then 0, then the menu number(s).

For example, to access your Inbox, press **Menu 01-4**.

6

---

### 1 Messages



- 
- 1 Write message
  - 2 Write e-mail
  - 3 Chat
  - 4 Inbox
  - 5 Multimedia inbox
  - 6 Outbox
  - 7 Archive
  - 8 Templates
  - 9 Pictures
  - 10 My folders
  - 11 Erase messages
  - 12 Info messages
  - 13 Service command editor
  - 14 Message settings
  - 15 Voice messages
    - 1 Listen to voice messages
    - 2 Voice mailbox number

---

## 2 Call log

---



- 1 Missed calls
- 2 Received calls
- 3 Dialed numbers
- 4 Clear call lists
  - 1 All
  - 2 Missed
  - 3 Received
  - 4 Dialed
- 5 Call timers
  - 1 Duration of last call
  - 2 Duration of dialed calls
  - 3 Duration of received calls
  - 4 Duration of all calls
  - 5 Life timer
  - 6 Clear timers
- 6 Call costs (*Depends on network availability*)
  - 1 Last call units
  - 2 All calls units
  - 3 Call cost settings
- 7 GPRS data counter
  - 1 Data sent in last session
  - 2 Data received in last session
  - 3 All sent data
  - 4 All received data
  - 5 Clear counters
- 8 GPRS connection timer
  - 1 Duration of last session
  - 2 Duration of all sessions
  - 3 Clear timers

---

### 3 Profiles



- 1 Normal
  - 1 Select
  - 2 Customize
    - 1 Ringing options
    - 2 Ringing tone
    - 3 Ringing volume
    - 4 Vibrating alert
    - 5 Message alert tone
    - 6 Keypad tones
    - 7 Warning tones
    - 8 Screen saver
    - 9 Alert for
    - 10 Profile name (*Only appears under Silent, Meeting and Outdoor*)
    - 11 Tone services (*Appears one level higher for Normal*)
  - 3 Timed
- 2 Silent
- 3 Meeting
- 4 Outdoor
- 5 My profile 1
- 6 My profile 2

---

### 4 Settings



- 1 Tone settings
  - 1 Ringing options
  - 2 Ringing tone
  - 3 Ringing volume
  - 4 Vibrating alert
  - 5 Message alert tone
  - 6 Keypad tones
  - 7 Warning tones
  - 8 Alert for
  - 9 Start-up tone
  - 10 Tone services

- 2 Time and date settings
  - 1 Alarm clock
  - 2 Clock settings
  - 3 Date settings
  - 4 Auto update of date and time
- 3 Call settings
  - 1 Automatic redial
  - 2 1-touch dialing
  - 3 Summary after call
  - 4 Anykey answer
- 4 Phone settings
  - 1 Language
  - 2 Automatic keyguard
  - 3 Cell info display
  - 4 Welcome note
  - 5 Help text activation
- 5 Network services
  - 1 Call forwarding
  - 2 Call waiting
  - 3 Send own caller ID when calling
  - 4 Line for outgoing calls
  - 5 System selection
- 6 Accessory settings
  - 1 Headset
  - 2 Handsfree *(Only shows up when phone is connected to Car Kit)*
  - 3 Loopset
  - 4 TTY/TDD
- 7 Security settings
  - 1 PIN code request
  - 2 Call restrictions
  - 3 Fixed dialing
  - 4 Closed user group
  - 5 Security level
  - 6 Change access codes
- 8 Restore factory settings



---

5 Calendar



---

6 Calculator



---

7 Applications



- 1 Select app.
- 2 Open browser
- 3 Memory

---

8 Games



- 1 Select game
  - 1 Space Impact II
  - 2 Bumper
  - 3 Sugar Bowl
- 2 Game services (depends on network availability)
- 3 Settings
  - 1 Game sounds
  - 2 Game lights
  - 3 Shakes
  - 4 Club Nokia ID (depends on network availability)
  - 5 Game controls

---

**9 Services**


The following menu items may vary; contact your service provider.

---

- 1 Home
- 2 Bookmarks
- 3 Service inbox
- 4 Settings
  - 1 Active service settings
  - 2 Edit active service settings
    - 1 Settings name
    - 2 Homepage
    - 3 Session mode
    - 4 Connection security
    - 5 Data bearer
 

GSM data	or	GPRS
Dial up number		GPRS connection
IP address		GPRS access point
Authentication type		IP address
Data call type		Authentication type
Data call speed		Login type
Login type		User name
User name		Password
Password		
  - 3 Appearance settings
  - 4 Cookie settings
  - 5 Authority certificates
  - 6 Service inbox settings
- 5 Go to address
- 6 Clear the cache


---

**10 SIM services**


For availability, rates and information on using SIM services, contact your SIM card vendor, e.g. network operator, service provider, or other vendor.

---

## • PHONE BOOK MENU



- 1 For access to the phone book, press  to return to the **Start** screen.
- 2 Press **Names**.

These options may be available, depending on your SIM card:

- 1 **Find**
- 2 **Add entry**
- 3 **Edit name**
- 4 **Erase**
- 5 **Copy**
- 6 **Add number**
- 7 **Settings**
  - 1 **Memory in use**
  - 2 **Phone book view**
  - 3 **Memory status**
- 8 **1-touch dialing**
- 9 **Voice tags**
- 10 **Caller groups**
  - 1 **Family**
  - 2 **VIP**
  - 3 **Friends**
  - 4 **Business**
  - 5 **Other**
- 11 **Info numbers** (only shows up if you have Info message service included on SIM card)
- 12 **Service nos.**
- 13 **Own numbers**

## 7 Enter letters and numbers

You can enter letters and numbers into your phone for a person's name and phone number, writing a text message, and so on. There are two ways to do this:

-  ABC mode, for making entries in the phone book and renaming caller groups.
-  Predictive text input, for writing text messages, adding notes to a picture message, entering calendar notes, and entering a web address using WAP services.

7

### • ABC MODE










You can use the ABC mode to enter information into the phone book. From the **Start** screen, press **Names**, then scroll to **Add entry** and press **Select**.

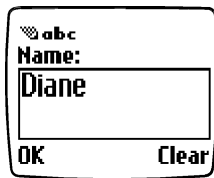
The **Abc** icon appears in the left corner as visual confirmation.

### Add letters

- 1 Find the key that has the letter you want to enter.
- 2 Press the key as many times as needed for the letter to appear on the screen.

For example, to enter the name Diane:

- Press  D
- Press    I
- Press  A
- Press   N
- Press   E





Depending on the selected display language, the following characters may be available.

Key	Characters	Key	Characters
1	. ; ? ! " ' 1 - ( ) @ / : _	7	PQRS7
2	ABC2	8	TUV8
3	DEF3	9	WXYZ9
4	GHI4	0	space, 0
5	JKL5	*	(See page 35 for details.)
6	MNO6	#	Changes letter case



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

## Enter spaces and punctuation


- To enter a space, press  once.
- To enter punctuation, press  repeatedly until the character you want appears.

## Erase mistakes

If you make a mistake:

- Press **Clear** to erase each character.
- Press and hold **Clear** to erase the entire field of characters.


## Change letter case

To switch between uppercase and lowercase letters, press .


The **ABC** icon switches to **abc**, showing you are using lowercase letters.

## Enter numbers

To enter numbers, you can:

- Press and hold  to switch to 123 mode. Press the appropriate number key to enter a number. OR
- While in ABC mode, press and hold the corresponding number key until the number appears.


If you make a mistake:

- Press **Clear** to erase the number.
- To switch back to the ABC mode, press and hold  again.

7

## Use special characters

### IN ABC MODE

- 1 Press . A screen appears with the following special characters available:


., ' ? ! " - ( ) @ / : \_ ; + & % \* = < > £ ¢ \$ ¥ ¢ [ ] { } \ ~ ^ ` ¡ ¢ \$ # | \_ +

- 2 Use scroll keys to select the character you want, then press **Insert**.

### IN 123 MODE

You can access the following special characters only in 123 mode. There are two places you can use these characters:









- At the **Start** screen, when you dial a phone number
- At the number prompt, when you add a new entry to the phone book

Press  to enter \*

\* Use this character to send command strings to the network. Contact your service provider for details.

Press   to enter +

+ Use this character as a prefix for dialing international numbers.

Press    to enter <b>p</b>
<b>p</b> Use this character to create a pause that occurs when dialing a number. Numbers entered to the right of this special character are automatically sent as touch tones after a 2.5-second pause.
Press     to enter <b>w</b>
<b>w</b> This character creates a wait; digits to the right of the <b>w</b> are not sent until you press  .

## 7

### • PREDICTIVE TEXT INPUT

Predictive text input allows you to write messages much faster than the ABC mode. With predictive text input, you only need to press each number key once for each letter. Your phone uses a built-in dictionary to predict or guess what you are writing. You can also add new words to the dictionary.



**Note:** Predictive text input may not be available for all languages.




**Note:** Predictive text input is not available for adding names to the phone book.


### Select a language and turn on predictive text

- 1 Press **Menu**, then press **Select**.
- 2 With **Write message** highlighted, press **Select**.
- 3 Press **Options**, scroll to **Predictive text**, then press **Select**.
- 4 Scroll to the language you want, then press **Select**.  
**T9 prediction on** appears.

## Turn off predictive text

- To switch from predictive text input to ABC mode, repeat steps 1 through 3 above, then select **Prediction off**. OR
- While writing the message, quickly press  twice to switch between predictive text input and ABC mode.








**Tip:** Your key presses must be quick! Press  two times in about 1.5 seconds.

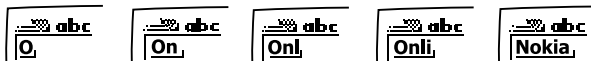
## Write words using predictive text

7

- Press the number key that corresponds to the letter you want to enter.



For example, to write “Nokia” with the English dictionary selected, press the following keys:

 (for N)  (for o)  (for k)  (for i)  (for a)



The display shows the above words for each key pressed.


Since the displayed word changes after each key stroke, disregard the word until you have keyed in all the characters.

- If the displayed word is correct, press  to accept the word and add a space.
- If the displayed word is not correct, press  to see the other possible matches.
- If the word you are trying to write is not in the dictionary, a question mark appears.
- To check the number of available characters, refer to the counter in the upper right corner of the screen.



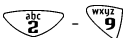











## Add a new word to the dictionary

If the word you are trying to enter does not show up as a possible match, you can add the word to the dictionary.


- 1 Press  repeatedly until **Spell** appears in place of **Options**.
- 2 Press **Spell**, then enter the word(s) using ABC mode.
- 3 Press **Save** to add the word to the dictionary.

## Use predictive text shortcuts



Press **Menu 01 1 (Messages > Write message)** to write messages using the following shortcuts.

	Press each key only once for each letter.
	Press to view the next matching word if the underlined word is not the word you intended.
<b>Spell</b>	Press to add a new word to the dictionary.
	Press once to accept a word and add a space.
	Press and hold to enter a number.
	Press to change the character case. <b>ABC</b> indicates uppercase. <b>abc</b> indicates lowercase. <b>Abc</b> indicates sentence case.
	Press twice to select predictive input or ABC mode.  <b>ABC</b> and  <b>abc</b> indicate ABC mode.  <b>Abc</b> and  <b>abc</b> indicate predictive text input.
<b>Clear</b>	Press to delete the character to the left of the cursor.
	Press once to add a punctuation mark. To change the underlined symbol, press  repeatedly until the desired symbol appears.



## Insert symbols

- 1 Press and hold  until the symbol screen appears.  
OR  
Press **Options**, scroll to **Insert symbol** then press **Select**.
- 2 Scroll to the desired symbol and press **Insert**.

## Insert numbers

- 1 To add a number to the message, press and hold .
- 2 Key in the desired numbers, then press and hold  to return to ABC mode.

## Write compound words

- 1 Write the first part of the word and press  to accept it.
- 2 Write the last part of the compound word and press  to enter the word in memory.

## 8 Use the phone book

You can keep track of names and numbers in your phone book.

- Names are saved in the phone book memory and/or SIM memory.
- For each name in the phone memory, you can add up to 5 phone numbers, including:

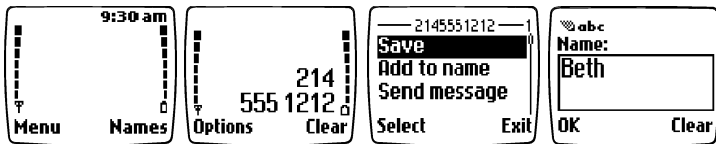


- For each name in the phone memory, you can also store an e-mail address, a web address and a street address.
- For more details about the phone's memory and the SIM memory, see "Your phone's memory" on page 44.

### • SAVE NAMES, NUMBERS AND E-MAIL ADDRESSES

#### Quick Save

Here's a quick and easy way to save a name and number into the phone book.



1

Make sure your phone is at the **Start** screen.

2

Enter the number you want to save, then press **Options**.

3

Scroll to **Save**, then press **Select**.

4

Enter the name and press **OK**.

## Save a number only

- 1 Enter the phone number.
- 2 Press and hold **Options**.

## Save a name and number while in a call



- 1 Press **Options**.
- 2 Scroll to **Phone book**, then press **Select**.
- 3 Scroll to **Add entry**, then press **Select**.
- 4 Enter the name, then press **OK**.
- 5 Enter the phone number, then press **OK**.

## Save an E-mail address

You can save an e-mail address for a name in your phone book.





**Tip:** All phone book entries that contain e-mail addresses must be stored in the phone memory. See "Phone memory and SIM memory" on page 44.

- 1 At the **Start** screen, press  or  to scroll through the list until you find the name you want.
- 2 Press **Details**, then press **Options**.
- 3 Scroll to **Add detail**, then press **Select**.  
If the name has been saved to the SIM card, the phone prompts you to move it to the phone memory. Press **Yes**.
- 4 Scroll to **E-mail** and press **Select**.
- 5 Enter the e-mail address, then press **OK**.





**Tip:** To switch between letters and numbers, press and hold the # key. To enter @ in the e-mail address, press the \* key, scroll to @, then press **Insert**.

## • EDIT NAMES



- 1 At the **Start** screen, press  or  to scroll through the list until you find the name you want to change.
- 2 Press **Details**, then press **Options**.
- 3 Scroll to **Edit name**, then press **Select**.
- 4 Edit the name, then press **OK**.

## • EDIT NUMBERS

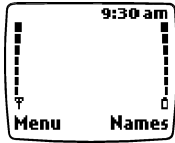
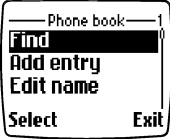
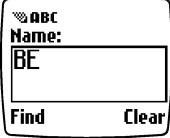
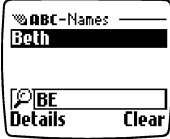
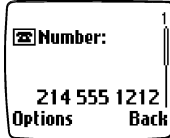

- 1 At the **Start** screen, press  or  to scroll through the list until you find the entry you want to change.
- 2 Press **Details**, then press **Options**.
- 3 Scroll to **Edit number**, then press **Select**.
- 4 Edit the number, then press **OK**.

## • ADD TEXT ENTRIES

You can add a Web address, Street address or Note for each name .

- 1 At the **Start** screen, press  or  to scroll through the list until you find the name.
- 2 Press **Details**, then press **Options**.
- 3 Scroll to **Add detail**, then press **Select**.  
If the name has been saved to the SIM card, the phone prompts you to move it to the phone memory. Press **Yes**.
- 4 Scroll to **Web address**, **Street address** or **Note**, then press **Select**.
- 5 Enter your information, then press **OK**.


- FIND NAMES IN THE PHONE BOOK

 <p>The screen shows the time 9:30 am at the top right. At the bottom, there are two buttons: <b>Menu</b> on the left and <b>Names</b> on the right.</p>	<p>1 At the <b>Start</b> screen, press <b>Names</b>.</p>
 <p>The screen shows a list of options under the heading "Phone book:". The options are <b>Find</b>, <b>Add entry</b>, <b>Edit name</b>, <b>Select</b>, and <b>Exit</b>. The <b>Find</b> option is highlighted with a black bar.</p>	<p>2 With <b>Find</b> highlighted, press <b>Select</b>.</p>
 <p>The screen shows a search interface with the heading "ABC Name:". Below the heading is a text input field containing the letters "BE". At the bottom, there are two buttons: <b>Find</b> on the left and <b>Clear</b> on the right.</p>	<p>3 Enter the first two letters of the name and press <b>Find</b>.</p>
 <p>The screen shows the search results under the heading "ABC-Names". The name "Beth" is highlighted with a black bar. Below the name is a search input field containing "BE". At the bottom, there are two buttons: <b>Details</b> on the left and <b>Clear</b> on the right.</p>	<p>The first matching name appears on the screen.</p> <p>4 Press <b>Details</b> to show the phone number.</p>
 <p>The screen shows the details for the name "Beth". It has a heading "Number:" followed by a text input field containing the phone number "214 555 1212". At the bottom, there are two buttons: <b>Options</b> on the left and <b>Back</b> on the right.</p>	<p>5 To call the number, press .</p>

## Use scroll keys to find a name

At the **Start** screen, press  or  to scroll through the list until you find the name.

## • YOUR PHONE'S MEMORY

You can save names and numbers in the phone's internal memory, in the SIM card memory or in a combination of the two. The SIM icon  appears when the phone book entry is saved in SIM memory.



**Note:** The phone's memory is dynamic. The shorter the names and numbers are, the more entries you can store in the phone book. The phone's memory can hold a maximum range of 125 to 500 names, depending on the number of characters used for each name, number or text entry.

8

## Phone memory and SIM memory

The following table summarizes the differences between the three types of memory you can choose.

Phone feature	Phone memory	SIM memory	Phone and SIM memory
Names capacity	Up to 500 (depending on length of entries)	Up to 250 names (Depends on your SIM card; check with your service provider)	Up to 750 names (both SIM and phone entries are displayed)
Phone numbers	Up to 5 numbers per name	1 number (Depends on your SIM card; check with your service provider)	Up to 5 numbers per name (stored in phone memory)

Phone feature	Phone memory	SIM memory	Phone and SIM memory
E-mail, Web address, Street Address and Note	Up to 3 text entries per name	Not available	Up to 3 text entries per name (stored in phone memory)
Can use caller groups	Yes	Yes	Yes
Can transfer names/numbers to another phone?	No	Yes, contact your service provider for details.	Only numbers stored to SIM can be transferred
Can use voice tags?	Yes	Yes	Yes

## Switch between memory types

The default memory type is **Phone and SIM**.

- 1 At the **Start** screen, press **Names**.
- 2 Scroll to **Settings**, then press **Select**.
- 3 Scroll to **Memory in use**, then press **Select**.
- 4 Scroll to **Phone and SIM**, **Phone**, or **SIM card** then press **Select**.

If you choose to keep **Phone and SIM** as the memory type:

- names and numbers can be recalled from both the phone and SIM card,
- phone book entries are displayed in a combined list, and
- new entries are saved to the phone memory.



## Check memory status

You can see how much storage space is left in the phone memory or SIM card memory.

- 1 From the **Start** screen, press **Names**.
- 2 Scroll to **Settings**, then press **Select**.
- 3 Scroll to **Memory status**, then press **Select**.
- 4 Scroll to **Phone** or **SIM card**, then press **Select**.

## If your phone book is full

If your phone book is full, you can save the phone number to another memory or replace an existing entry.



8

### • ERASE NAMES AND NUMBERS



**Caution:** You cannot undo Erase functions, so be careful!

### Erase a stored number

- 1 At the **Start** screen, press  or  to scroll through the list until you find the entry you want to delete.
- 2 Press **Details**, then **Options**.
- 3 Scroll to **Erase number**, then press **Select**, then **OK**.

### TO ADD A DIFFERENT PHONE NUMBER TO THE NAME

- 1 Press **Options**, then scroll to **Add number**.
- 2 Press **Select**. Choose a number type (if you are saving to the phone memory), then press **Select**.
- 3 Enter the new number, then press **OK**.

### TO ERASE THE NAME

- 1 Press **Options**, then scroll to **Erase**.
- 2 Press **Select**. Press **OK** to confirm.

## Erase your entire phone book



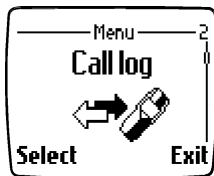
**Caution:** This feature erases your entire phone book and cannot be undone!

- 1 Press **Names**.
- 2 Scroll to **Erase** and press **Select**.
- 3 Scroll to **Erase all** and press **Select**.
- 4 Scroll to the memory (Phone or SIM card) you want to erase, then press **Erase**.
- 5 Press **OK** to confirm. Enter your security code and press **OK**. See “Security code” on page 90 for the default code.

## 9 Check call history

Your phone provides a call log that registers information about calls you make and receive. The call log keeps track of the following:

- Missed calls
- Received calls
- Dialed calls
- The amount of data sent and received over GPRS.
- The amount of time spent online for data transfers over GPRS.



### 9

#### • CHECK MISSED, RECEIVED OR DIALED CALLS

Your phone saves the last 10 numbers you've missed, received or dialed.



**Note:** The call log saves the phone numbers of missed or received calls only if the caller's number is available and has not been blocked.

- 1 Press **Menu 2 (Call log)**, then scroll to **Missed calls**, **Received calls** or **Dialed numbers**.
- 2 Press **Select**, then scroll to the number you want to see.
- 3 To dial the number, press
- 4 Press **Options** to find more information or to add a number to your phone book.
- 5 Use the scroll keys to display each of the options listed in the following table. Once you find the option you want, press **Select**.

## • CHOOSE OPTIONS IN CALL LISTS

When you view the missed calls, received calls, or dialed calls list and press **Options**, the following choices may appear.



**Note:** Not all options will appear each time. Also, the order of options may vary.

Choice	What it does
Call time	Shows the date and time of the last call. Use the scroll keys to view up to five recent call dates/time for the displayed phone number.
Send message	Allows you to write a short text message to the person who called you.
View number	Displays the phone number if the caller's name is stored in the phone book.
Edit number	Allows you to edit the displayed number and save it with a name to your phone book.
Save	Allows you to enter a name for the number and save both to your phone book.
Add to name	Allows you to save the number to an existing name in the phone book.
Erase	Allows you to delete the number from the call list.
Call	Dials the number from the call log.
View details	Allows you to view multiple phone numbers if the caller's name and numbers are stored in the phone book.

## • CLEAR CALL LISTS

This feature clears all the missed, received, and dialed call lists.



**Caution:** You cannot undo this operation.

- 1 Press **Menu 2 4** (**Call log > Clear call lists**).
- 2 Scroll to **All, Missed, Received,** or **Dialed** then press **Select**.



**Caution:** Missed, received, and dialed calls lists are also erased when you change the phone security setting, or if you use a SIM card that is not one of the five most recent cards used with the phone.

## • USE CALL TIMERS

9

### If you have two phone lines

If you subscribe to a second phone line (see “Work with two phone lines” on page 65), call timers are separate for each phone line. When you view call timers, the call timers that are shown are for the currently selected outgoing line. However, if you view call timers while you are in a call, the call timers that are shown are for the line you are using at that moment.

### View the call duration

- 1 Press **Menu 2 5** (**Call log > Call timers**).
- 2 Scroll to **Duration of last call, Duration of dialed calls, Duration of received calls,** or **Duration of all calls**.

### View the Life timer

Your phone keeps track of the total call time (all calls made and received). The life timer is displayed in hours (H) and minutes (M) : HHHH:MM.

- 1 Press **Menu 2 5 5** (**Call log > Call timers > Life timer**).
- 2 Press **Back** after viewing the Life timer.

## Reset call timers to 0



**Note:** The life timer cannot be reset.

- 1 Press **Menu 2 5** (**Call log** > **Call timers**).
- 2 Scroll to **Clear timers**, then press **Select**.
- 3 Enter your security code, then press **OK**.

## Show call timer during a call

- 1 While in a call, press **Options**.
- 2 Scroll to **Menu**, then press **Select**.
- 3 Scroll to **Call log**, then press **Select**.
- 4 Scroll to **Call timers**, then press **Select**.

The time for the active call is shown on the display.



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

## Show call timer after call

Your phone can display the time spent on a call after you end the call. This feature is called **Summary after call**.

### TURN ON SUMMARY AFTER CALL

- 1 Press **Menu 4 3 3** (**Settings** > **Call settings** > **Summary after call**).
- 2 Scroll to **On**, then press **Select**.
- 3 After you end a call, the total time for that call appears on the display.

### TURN OFF SUMMARY AFTER CALL

- 1 Press **Menu 4 3 3** (**Settings** > **Call settings** > **Summary after call**).
- 2 Scroll to **Off**, then press **Select**.

## • MANAGE CALL COSTS

This network service allows you to check call costs. You can view the last call cost, or the total cost of all calls made or received since the counters were reset. Contact your service provider for availability and instructions.



**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.

## • CHECK DATA CALLS

In addition to keeping track of voice calls, your phone's call log records information about data calls. You can check the amount of data transferred over the network via GPRS. You can also keep track of how much time you spend online.



**Note:** Text messages sent over GPRS are not counted and therefore not included in the data counter or connection timer. For details on pricing and availability, contact your service provider.



**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.

### Check the data counter

All data counters are displayed in bytes (B).

- 1 Press **Menu 2 7 (Call log > GPRS data counter)**.
- 2 Scroll to the information you are interested in viewing. Your options include the following:
  - Data sent in last session
  - Data received in last session
  - All sent data
  - All received data

## Clear the data counter

- 1 Press **Menu 2 7** (**Call log > GPRS data counter**).
- 2 Scroll to **Clear counters**, then press **Select**.
- 3 Enter your security code, then press **OK**.

## Check the connection timer

The time is displayed in hh:mm:ss format.



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

- 1 Press **Menu 2 8** (**Call log > GPRS connection timer**).
- 2 Scroll to the information you are interested in viewing.

Your options include the following:

- Duration of last session
- Duration of all sessions

## Clear the connection timer

- 1 Press **Menu 2 8** (**Call log > GPRS connection timer**).
- 2 Scroll to **Clear timers** and press **Select**.
- 3 Enter your security code, then press **OK**.



# 10 Advanced calling features

This chapter covers advanced calling features, including:

- In-call options and swapping between calls
- Call settings that you control such as anykey answer
- Network services such as call forwarding

Not all features that are described are available in all wireless networks. Contact your service provider for availability of network services.

## • USE IN-CALL OPTIONS


During a call, press **Options** to see the In-call menu.



**Note:** Not all options will appear each time. Also, the order of options may vary.

Choice	What it does
End call	Ends current call.
New call	Allows you to place a new call.
Touch tones	Sends touch tones. Touch tones are the sounds generated when you press a key; touch tones can be used for automated, over-the-phone services such as checking airline arrival/departure times.
Phone book	Switches you to the phone book so that you can look up a name, number or address.
Menu	Allows you to access your phone's menu.
Mute	Disables the microphone so that the other party cannot hear you speak. Mute also affects the microphone of any external accessories connected to your phone.
Hold	Holds or releases a call.



## Make a new call

- 1 Enter the second phone number, or recall it from the phone book.
  - 2 Press .
- OR
- 1 Press **Options**.
  - 2 Scroll to **New call**, then press **Select**.
  - 3 Enter the second phone number, or recall it from the phone book.
  - 4 Press **Call**.

With either method, the first call is automatically put on hold.

### SWITCH BETWEEN TWO CALLS IN PROGRESS

Press  or **Swap**.

The  icon represents the active call and the  icon represents the call on hold.



10

### END THE ACTIVE CALL

Press .

The held call becomes the active call.

## • MAKE AN INTERNATIONAL CALL

- 1 Press  twice to enter the international dialing prefix (+).
- 2 Enter the country code, area code, and phone number, and press .

## • USE AUTOMATIC REDIAL

### Activate automatic redial

- 1 Press **Menu 4 3 1** (**Settings** > **Call settings** > **Automatic redial**).
- 2 Scroll to **On**, then press **Select**.

If the number you dial is busy, your phone immediately redials the number. If it is still busy, your phone will redial the number up to nine more times.



**Note:** Automatic redial will not work while you make or answer another call.

## • USE 1-TOUCH DIALING

Assign a name and number to a 1-touch dialing location so that when you press this key, the phone automatically dials the associated number.

Key 1 is used to access your voice mail. See “Listen to your voice messages” on page 65 for details on voice mail.

### Assign a number to a 1-touch dialing key

- 1 Press **Names** and scroll to **1-touch dialing**, then press **Select**.
- 2 Scroll to a dialing location, then press **Assign**.
- 3 Enter a phone number, press **OK**. Enter a name, press **OK**.


OR

Press **Find**. Scroll to the phone book entry you want, then press **Select** twice.

### Activate 1-touch dialing

- 1 Press **Menu 4 3 2** (**Settings** > **Call settings** > **1-touch dialing**).
- 2 Scroll to **On**, then press **Select**.

### Call a 1-touch dial number

From the **Start** screen, press and hold the appropriate key, or press the key then press .

The phone dials the number.

## Change 1-touch dialing numbers

- 1 Press **Names**.
- 2 Scroll to **1-touch dialing** and press **Select**.
- 3 Scroll to the key that you want to change, and press **Options**.
- 4 Scroll to **Change** and press **Select**.
- 5 Enter a phone number, then press **OK**.
- 6 Enter a name, then press **OK**.

## Erase 1-touch dialing numbers


- 1 Press **Names**.
- 2 Scroll to **1-touch dialing** and press **Select**.
- 3 Scroll to a key that you want to erase and press **Options**.
- 4 Scroll to **Erase** and press **Select**.
- 5 Press **OK** to confirm.

10

### • USE ANYKEY ANSWER

This feature allows you to press any key to answer an incoming call.



**Note:** Anykey answer does NOT work with the Power button, , or left and right selection keys.

## Turn on Anykey answer

- 1 Press **Menu 4 3 4** (**Settings** > **Call settings** > **Anykey answer**).
- 2 Scroll to **On** and press **Select**.

## Turn off Anykey answer

- 1 Press **Menu 4 3 4** (**Settings** > **Call settings** > **Anykey answer**).
- 2 Scroll to **Off** and press **OK**.

## • USE NETWORK SERVICES

Network services include call forwarding, call waiting, caller ID, multiple lines for outgoing calls, and system selection.

- For availability, pricing and subscription to network services, contact your service provider.

### Choose an outgoing line



**Tip:** Your service provider must have this feature activated before you can select line 2.

- 1 Press **Menu 4 5 4** (**Settings > Network services > Line for outgoing calls**).
- 2 Scroll to **Line 1** or **Line 2**, then press **Select**.

## 10

### Send your own number in caller ID

You can determine, for each call you make, whether your telephone number appears on another phone's caller ID.

In most service areas, when you call others, your name is presented to their caller ID (if they subscribe to this service). With **Send own caller ID when calling**, you can block or send the display of your number when you make a call.

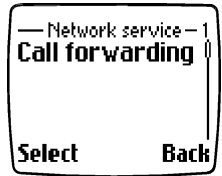


**Note:** This feature may not be available in all wireless systems. Contact your service provider for details and availability. Also note that this feature is effective only when you call a number that is equipped with caller ID.

- 1 Press **Menu 4 5 3** (**Settings > Network services > Send own caller ID when calling**).
- 2 Scroll to one of the following options, then press **Select**:
  - **Default:** your phone number is sent according to the network.
  - **Yes:** your phone number is sent to the other person's caller ID.
  - **No:** your phone number is not sent to the other person's caller ID.

## Forward your calls

This network service lets you forward your incoming calls to another phone number. Contact your service provider to sign up for call forwarding.



**Note:** Call forwarding options may vary, depending on the SIM card configuration. Contact your service provider for details.



**Note:** If you subscribe to a second phone line, call forwarding works separately for each line. Make sure you have selected the line you want before you set up any call forwarding.

### ACTIVATE CALL FORWARDING

- 1 Press **Menu 4 5 1** (**Settings** > **Network services** > **Call forwarding**).
- 2 Scroll to one of the call forwarding options, then press **Select**:

10



**Tip:** If you want to forward your calls to another number when your phone is turned off, select **Forward when not able to take calls**.

- Forward all voice calls
  - Forward if busy
  - Forward if not answered
  - Forward if out of reach
  - Forward when not able to take calls
  - Forward all fax calls
  - Forward all data calls
  - Cancel all call forwarding
- 3 Scroll to **Activate**, then press **Select**.
  - 4 Scroll to one of the following  
**To voice mailb.** or **To other no.**

5 If you choose **To other no.**, enter the phone number, then press **OK**.

The following icons appear on your phone's screen:



Incoming voice calls are being forwarded to another number.



You have forwarded all voice calls that are received on line 1.



You have forwarded all voice calls that are received on line 2.



You have forwarded all voice calls that are received on lines 1 and 2.

### CANCEL CALL FORWARDING

- 1 Press **Menu 4 5 1** (**Settings > Network services > Call forwarding**).
- 2 Scroll to the call forwarding option you want, then press **Select**.
- 3 Scroll to **Cancel**, then press **Select**.



**Note:** Canceling all call forwarding may also cancel any automatic forwarding of calls to voice mail that your service provider has activated for you. Also, this option may cancel your call forwarding service. Contact your service provider for details.

### CHECK CALL FORWARDING STATUS

- 1 Press **Menu 4 5 1** (**Settings > Network services > Call forwarding**).
- 2 Scroll to the call forwarding option you want to check, press **Select**.
- 3 Scroll to **Check status**, then press **Select**.



**Note:** Status is not available for **Forward when not able to take calls**.

To see the phone number where the calls are being forwarded, press **Number**.

## Select a system

You can select how your phone chooses a wireless network, as there may be more than one available. The selection you make stays active until you change it or change the SIM card.

- 1 Press **Menu 4 5 5** (**Settings > Network services > System selection**).

- 2 Scroll to **Automatic** or **Manual**, then press **Select**.
  - **Automatic:** The phone automatically selects one of the available systems.
  - **Manual:** The phone searches for available systems and then lists them. Scroll to the one you want, then press **Select**. The phone looks for a network and displays the result. If you lose connection while in **Manual** mode, the phone asks you to select a network again.

## Use call waiting

This network service lets you receive an incoming call when you're already in a call. The phone beeps to let you know of the incoming call. Contact your service provider to sign up for call waiting.


### ACTIVATE/CANCEL CALL WAITING

- 1 Press **Menu 4 5 2** (**Settings > Network services > Call waiting**).
- 2 Scroll to **Activate** or **Cancel**, then press **Select**.

### CONFIRM CALL WAITING STATUS

- 1 Press **Menu 4 5 2** (**Settings > Network services > Call waiting**).
- 2 Scroll to **Check status** and press **Select**.

### ANSWER A WAITING CALL

- 1 Your phone signals when you have a call waiting.
- 2 Press  to put the current call on hold and answer the waiting call, OR Press **Answer**.

### REJECT A WAITING CALL



You can just let the phone ring, or follow the steps below.

- 1 Press **Options** and scroll to **Decline call**.
- 2 Press **Select**.



## SWITCH BETWEEN CALLS

Press  or **Swap**.

The  icon represents the active call and the  icon represents the call on hold.

## END THE ACTIVE CALL

- Press .


The held call becomes active.

OR

- Press **Options** scroll to **End call**, then press **Select**.


## THIRD CALL WAITING

If you have both an active and a held call and a third call is waiting, you can answer the third call and end the other calls.

- 1 Press **Options**.
- 2 Scroll to **End all calls**, then press **Select**.
- 3 Press  to answer the third call.

## Make a conference call

This network service, if available from your service provider, allows you to make conference calls with your phone. Check with your service provider for availability and details for use.

- 1 Place a call to the first person.
- 2 Press **Options** and scroll to **New call**.
- 3 Press **Select**, enter the number of the next party you want to include, then press **Call**.
- 4 After the other party answers, press **Options**.
- 5 Scroll to **Conference**, then press **Select**.
- 6 To add other parties to the call, repeat steps 2 through 5.
- 7 To end the conference call, press .

## HAVE A PRIVATE CONVERSATION WITH A PARTICIPANT

- 1 While in a conference call, press **Options**.
- 2 Scroll to **Private call**, then press **Select**.  
A list of the participants appears.
- 3 Scroll to the person you want to speak with, then press **OK**.  
The other participants can continue talking with each other.
- 4 To rejoin the conference call, press **Options**.
- 5 Scroll to **Conference**, then press **Select**.

## DROP A PARTICIPANT FROM THE CONFERENCE CALL

- 1 While in a conference call, press **Options**.
- 2 Scroll to **Private call**, then press **Select**.  
A list of the participants appears.
- 3 Scroll to the person you want to drop, then press **OK**.  
The other participants can continue talking with each other.
- 4 Press **Options**.
- 5 Scroll to **End call**, then press **Select**.

## Transfer a call

When you have one active and one held call, you can connect the two calls and disconnect yourself from the call.



**Note:** Your network must support this feature. Contact your service provider for availability.

During a call, press **Options**, scroll to **Transfer calls**, then press **Select**.

# 11 Use voice features

The voice features in your phone make communication more convenient. You can check messages from friends or business associates, record a voice tag for contacts in the phone book, and use voice dialing for handsfree operation.

## • ABOUT VOICE MAIL

Voice mail is a network feature that allows callers to leave a voice message for you when you are not able to take the call.

To use voice mail, you must have:

- A voice mail subscription
- A voice mailbox number
- A temporary password


These items are assigned by your service provider. Your service provider should also tell you how to record a greeting for your voice mailbox and how to change the temporary password.



**Note:** If you have difficulty using the voice mail feature, contact your service provider.

## Save the voice mailbox number

If your service provider has not already set up the voice mailbox number, follow these steps to set up the voice mailbox number.

- 1 Press **Menu** then press **Select**. Scroll  to **Voice messages**, then press **Select**.
- 2 Scroll to **Voice mailbox number**, then press **Select**.
- 3 Enter your voice mailbox number, then press **OK**.

The voice mailbox number must be longer than 2 characters and emergency numbers, such as 911, are not allowed.

## Work with two phone lines


If your particular SIM card supports it, your phone can have two phone lines. Your service provider can tell you if your SIM card allows the use of this feature and can give you access to two phone lines.

If you decide to use two phone lines, you can select one of the two lines for outgoing calls, but you can still answer calls on both lines.




If you use two phone lines, you will be given a voice mailbox number for each line. You need to save each phone line's voice mailbox number separately.

To do this, first select the outgoing line and save its voice mailbox number. Then, select the other line and save its number.

## Voice mail indicators


When you receive a voice message, your phone lets you know by beeping, displaying an icon on the screen , or showing a text message. The method of notification depends upon your carrier.

If you subscribe to two different phone numbers, the message icon shows which line the voice mail message is on.

-  Voice mail message on line 1.
-  Voice mail message on line 2.
-  Voice mail message on line 1 and on line 2.

## Listen to your voice messages

If there's a notification message on your screen, you can get your voice messages using one of the following methods:

- If you've saved your voice mailbox number in your phone, press and hold  to call your voice mailbox.
- Call your voice mailbox number as you would any other telephone number, then follow the directions provided.

To check your voice messages anytime, press **Menu 01 15 1 (Messages > Voice messages > Listen to voice messages)**.

## • USE 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 phone book so you can associate a "voice tag" with a name and number. To create entries in the phone book, see page 40.

### Tips for using voice tags

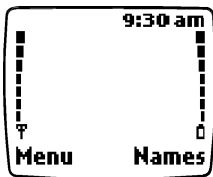
Before using voice dialing, note that:

- 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.
- You cannot use the voice tag or voice dialing feature if you are actively sending or receiving data using the GPRS connection.



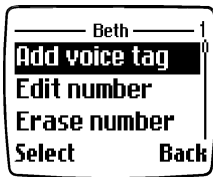
**Note:** You must say the name exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice dialing in all circumstances.

## Add a voice tag to a phone book entry



1

At the **Start** screen, scroll to the name you want to give a voice tag.



2

Press **Details**, then **Options**, and scroll to **Add voice tag**. Press **Select**.



3

Press **Start**. Speak the name clearly into the microphone.

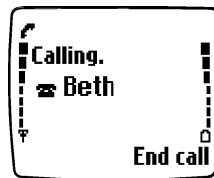


**Important:** Do **NOT** press **Quit** unless you want to cancel the recording. The phone automatically stops recording, then replays and saves the voice tag.

11

## Make a call using voice recognition

- 1 Press and hold **Names**. When you hear several beeps and **Please speak now** appears, release the button.
- 2 Pronounce the voice tag clearly into the microphone. Your phone automatically dials the number.



## Listen to a voice tag

- 1 Press **Names**, scroll to **Voice tags**, then press **Select**.
- 2 Scroll to the name with the voice tag you want to hear.
- 3 Press **Options**, scroll to **Playback**, and press **Select**.

## Change a voice tag

- 1 Press **Names**, scroll to **Voice tags**, then press **Select**.
- 2 Scroll to the name with the voice tag you want to change.
- 3 Press **Options**, scroll to **Change**, and press **Select**.
- 4 Press **Start**, then say the new name.

The phone repeats and saves your new voice tag.

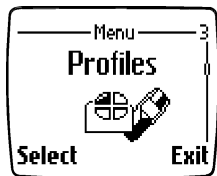
## Erase a voice tag

- 1 Press **Names**, scroll to **Voice tags**, then press **Select**.
- 2 Scroll to the name with the voice tag you want to erase.
- 3 Press **Options**, scroll to **Erase** and press **Select**.
- 4 Press **OK** to erase the voice tag.

# 12 Personalize your phone

## • WHAT ARE PROFILES?

Profiles let you set your phone's sound settings to your environment, whether it's a meeting or a soccer game. Each profile contains settings for your phone's ringing option, ringing tone, ringing volume, vibrating alert, message alert tone, keypad tones, and warning tones. Just pick the profile that suits your current environment: **Normal**, **Silent**, **Outdoor**, or **Meeting**.



Your phone also has profile settings for Nokia accessories such as a headset, car kit, loopset and TTY adapter.



**Note:** The accessory profiles do not appear until you attach these accessories for the first time.

12

## Select a profile

- 1 Press **Menu 3 (Profiles)**.
- 2 Scroll to the profile you want to use, then press **Select**.
- 3 Scroll to **Select**, then press **Select**.

## Customize a profile

- 1 Press **Menu 3 (Profiles)**.
- 2 Scroll to the profile you want to customize, then press **Select**.
- 3 Scroll to **Customize**, then press **Select**.
- 4 Use the scroll keys to display each of the options listed in the following table. Once you find the option you'd like to customize, press **Select**.



Option	What it does
Ring options	Allows you to choose a ringing style. Your choices include <b>Ring</b> , <b>Ascending</b> , <b>Ring once</b> , <b>Beep once</b> and <b>Silent</b> .
Ring tone	Allows you to choose from 25 preprogrammed tones. You can also download more ringing tones, see "Download ringing tones" on page 77 for more information.
Ring volume	Allows you to set the volume for incoming calls.
Vibrating alert	Allows you to turn the vibrating alert on or off. Note: your phone has an internal vibrating mechanism so you do not need a special battery to use this feature.
Message alert tone	Allows you to choose an alert style. Your choices include <b>No tone</b> , <b>Standard</b> , <b>Special</b> , <b>Beep once</b> , <b>Ascending</b> and <b>Personal</b> .
Keypad tones	Allows you to set the volume for keypad tones.
Warning tones	Allows you to turn warning and confirmation tones on or off.
Screen saver	Allows you to choose a screen saver for the selected profile. The image you choose is displayed if there have been no keypresses within the time-out period. You can choose the image, turn the screen saver on or off, and specify a time-out of 10 seconds, 30 seconds or other time.

Option	What it does
Alert for	You can choose to have your phone sound an audible alert only when a member of a selected caller group is calling. For more information about Caller groups, see "Use caller groups" on page 81.
Profile name	Allows you to give a new name to the following profiles: <b>Silent</b> , <b>Meeting</b> , or <b>Outdoor</b> .
Tone services	Allows you to access a mobile Internet service from which ringing tones can be downloaded to your phone.

## Set a timed profile

Timed profiles can be useful in preventing missed calls. For example, if you attend an event that requires you to set your phone to the **Silent** profile, you may forget to return the phone to the **Normal** profile after the event is over. You may not notice incoming calls. With the timed profile, you can have the phone automatically return to the **Normal** profile at a time you specify.

- 1 Press **Menu 3 (Profiles)**.
- 2 Scroll to the profile you wish to activate, then press **Select**.
- 3 Scroll to **Timed**, then press **Select**.
- 4 Enter the time for the profile to expire and press **OK**.
- 5 If you are using a 12-hour time format, scroll to **am** or **pm** then press **Select**.

The profile you've set for expiration is now active and appears in the **Start** screen along with a small clock icon.

## • ACCESSORY PROFILE SETTINGS

You can use your phone with these Nokia accessories:

- Headset (HDC-5, HDE-2 or HDB-5)
- Car kit (CARK125 or CARK 134)
- Loopset (LPS-3)
- TTY adapter (HDA-9)



**Note:** The setting used with the car kit is called **Handsfree**.

The accessory settings do not appear in the phone's menu until you connect the headset, car kit, loopset or TTY/TDD adapter.

You can adjust settings related to the accessory, such as ring tone.

### Set automatic answer

This profile lets your phone answer incoming calls after just one ring.



**Note:** This profile is available only when your phone is connected to a headset, loopset or to an approved car kit. This feature applies only to voice calls.

- 1 Press **Menu 4 6 (Settings > Accessory settings)**.
- 2 Scroll to **Headset, Handsfree, or Loopset**, then press **Select**.
- 3 Scroll to **Automatic answer**, then press **Select**.
- 4 Scroll to **On** and press **Select**.

## Set the default profile

When you use the headset, car kit or loopset, you have the option of choosing a profile. You can use the currently selected profile (for example, **Normal**) or you can choose from the list.


- 1 Press **Menu 4 6** (**Settings > Accessory settings**).
- 2 Scroll to **Headset, Handsfree or Loopset**, then press **Select**.
- 3 Scroll to **Default profile**, then press **Select**.
- 4 Scroll to the profile you want, then press **Select**.

## Set up the car profile

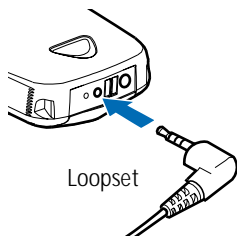
If you are using your phone with a Nokia-approved car kit, you can set lights to **On** (lights stay on) or **Automatic** (after 15 seconds, lights turn off until the next key is pressed or the phone rings).


## Set up the loopset profile

The LPS-3 Loopset gives people with T-coil equipped hearing aids the ability to make and receive calls without noise interference.

 **Important:** Refer to the booklet that comes with the LPS-3 for complete instructions and safety information.


- 1 Plug the loopset jack into the bottom of your phone, as shown in the illustration.
- 2 Press **Menu 4 6 3** (**Settings > Accessory settings > Loopset**).
- 3 Scroll to **Use loopset**, then press **Select**.
- 4 Scroll to **Yes**, then press **Select**.



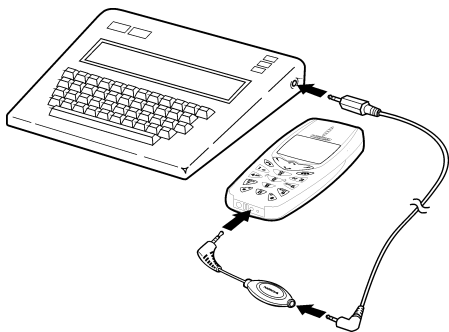
 **Note:** If you want to use the headset or TTY, you need to follow steps 2-3 above, then select **No** to deactivate the loopset profile.

## Set up the TTY/TDD profile

You can connect your phone to a TTY/TDD using the Nokia TTY/TDD Adapter (HDA-9). In order for your phone to recognize the TTY/TDD, you'll need to set up the TTY/TDD profile, under Accessory settings.

 **Important:** Some manufacturers of TTY/TDD devices suggest that the phone be least 18 inches from the TTY/TDD device. Remember — when connecting to any other device, read its user guide or contact its manufacturer for detailed instructions and safety information.

- 1 First, connect the TTY/TDD via cable to the HDA-9 adapter. Next, plug the HDA-9 adapter into the connector on the bottom of your phone, as shown in the illustration.



- 2 Press **Menu 4 6 4 1** (**Settings > Accessory settings > TTY/TDD > Use TTY**).
- 3 Scroll to **Yes**, then press **Select**.

### NOTES ABOUT TTY/TDD CALLS


- The Nokia TTY/TDD Adapter (HDA-9) is for use with compatible TTY/TDD devices only. Check with the manufacturer of the TTY/TDD device to ensure that the connection is compatible.

- Check with the manufacturer of the TTY/TDD device for the connecting cable.
- TTY/TDD communications depend on network availability. Check with your service provider for availability and description of services.

### MAKE A TTY/TDD CALL




**Tip:** Before making a TTY/TDD call with your Nokia phone, check the signal strength. See page 21 for more details.

- 1 From the **Start** screen, enter the number and press .
- 2 When the receiving party answers, begin typing your conversation on the TTY/TDD.

### RECEIVE A TTY/TDD CALL



**Tip:** You may find it helpful to use the vibrating alert under the Profiles menu. See "Customize a profile" on page 69 for details.

- 1 Make sure the TTY/TDD device is connected to your phone.
- 2 Press  to answer the call, then type your responses on the TTY/TDD.

12

### END A TTY/TDD CALL

Press .

## • DOWNLOAD PROFILES

You can customize your phone with personal profiles. Each profile contains a name, graphic and ringing tone. For details about how to download profiles over the wireless network, contact your service provider.

### Notification of received profile

When your phone receives a profile, it displays **Profile received** and sounds an alert tone.

## Listen to received tone



**Caution:** If you press **Exit** at any time before saving the profile, the profile will be deleted!

- 1 When your phone displays **Profile received**, press **Options**.
- 2 Scroll to **Details**, then press **Select**.
- 3 Scroll to **Ringing tone**, then press **Select**.  
The phone plays the ringing tone.

## View received graphic

- 1 Follow steps 1-2 above.
- 2 Scroll to **Profile logo**, then press **Select**.

## Save a profile or replace an existing profile

- 1 After receiving the profile, select **Options**.
- 2 Scroll to **Save**.  
You have 2 open spaces for personal profiles.
- 3 Scroll to **My profile 1** or **My profile 2** and press **Select**.

## Delete received profile

If you don't want to save the profile, press **Exit** without saving it or scroll to **Discard**, then press **Select**.

## • ABOUT POLYPHONIC SOUND (MIDI)

Your phone is equipped with a polyphonic tone generator capable of playing up to four different voices simultaneously. The generator can reproduce over 40 different instrument tones, including drums, guitar, saxophone, flute, etc. The polyphonic sounds bring a new richness and quality to ringing tones, message alert tones, and background music and sound effects used in gaming.

Your Nokia 3590 phone supports Mobile MIDI (GMX) format messages and ringing tones. Your phone can receive polyphonic ringing tones in two ways:

- via the multimedia message service (MMS). See “Receive multimedia messages (MMS)” on page 112 for more information.
- via the WAP browser. See “Sign on to the mobile Internet” on page 118 for more information.

## • DOWNLOAD RINGING TONES

You can download ringing tones over the Internet, or have them sent to your phone via SMS or MMS. Your phone has memory space for several standard ringing tones or MIDI ringing tones. The number of tones you can save depends on the size of each tone. MIDI tones take up more storage space in the memory than traditional ringing tones.



**Note:** Methods for downloading ringing tones vary. Some wireless providers allow you to send ringing tones to your phone via the Internet, but may charge for this service. For details about downloading ringing tones, contact your wireless service provider.

## Notification of received ringing tone

When your phone receives a ringing tone, it displays **Ring tone received**.

## Listen to received ringing tones



**Caution:** If you press **Exit** at any time before saving the ringing tone, the ringing tone will be deleted!

- 1 When your phone displays **Ring tone received**, press **Options**.
- 2 Scroll to **Playback**, then press **Select**.



## Save received ringing tones

- 1 Press **Options**.
- 2 Scroll to **Save tone**, then press **Select**.

The tone is saved to your list of ringing tones.

If the memory is full, the phone prompts you to replace an existing tone. **Replace tone?** appears. Press **Select**.

## Discard received ringing tones

If you don't want to save the ringing tone, press **Exit**, then press **OK** to confirm.

OR

Press **Options**, scroll to **Discard**, then press **Select**. Confirm with **OK**.

## • CHOOSE THE DISPLAY LANGUAGE

You can choose your phone's display language.

- 1 Press **Menu 4 4 1** (**Settings > Phone settings > Language**).
- 2 Scroll to the language you want, then press **Select**.



## • ADD A WELCOME NOTE

You can add a welcome note that your phone displays briefly each time you turn it on.

- 1 Press **Menu 4 4 4** (**Settings > Phone settings > Welcome note**).
- 2 Enter a note, then press **Options**.
- 3 Scroll to **Save**, then press **Select**.

## Erase the welcome note

- 1 Press **Menu 4 4 4** (**Settings > Phone settings > Welcome note**).
- 2 Press **Options**.
- 3 Scroll to **Erase**, then press **Select**.

### • ACTIVATE HELP TEXT

Many menu items have brief explanations of menu items. To view the help text, scroll to the menu item and wait for about 30 seconds. Press **More** to see the next page of the text or **Back** to exit.

- 1 Press **Menu 4 4 5** (**Settings > Phone settings > Help text activation**).
- 2 Scroll to **On**, then press **Select**.

To turn off help texts, scroll to **Off**, then press **Select**.

### • SET UP THE TIME AND DATE

Your phone has an internal clock that can be displayed on the **Start** screen. It also features an alarm clock (see "Use the alarm clock" on page 129).



**Note:** The time and date has to be reset each time the phone's battery is taken out and replaced.

## Select the time format

- 1 Press **Menu 4 2 2 3** (**Settings > Time settings > Clock settings > Time format**).
- 2 Scroll to **24-hour** or **am/pm**.
- 3 Press **Select**.

## Set the time

- 1 Press **Menu 4 2 2** (**Settings > Time settings > Clock settings**).
- 2 Scroll to **Set the time**, then press **Select**.
- 3 Enter the current time, using two digits for both hours and minutes.
- 4 Press **OK**.
- 5 Select **am** or **pm** and press **Select**.



**Note:** If you entered the time in the 24-hour format, **am** and **pm** do not appear.

If this is the first time you have set the clock, the phone asks you to enter the date. Enter the date in **mmddyyy** format and press **OK**.

## Set the date format

- 1 Press **Menu 4 2 3** (**Settings > Time settings > Date settings**).
- 2 Scroll to **Date format**, then press **Select**.
- 3 Choose one of these formats, then press **Select**:
  - DD MM YYYY
  - MM DD YYYY
  - YYYY MM DD

## Set the date

- 1 Press **Menu 4 2 3** (**Settings > Time settings > Date settings**).
- 2 Scroll to **Set the date**, then press **Select**.
- 3 Enter the date in **MM/DD/YYYY** format, then press **OK**.

## Display the clock

This feature lets you continuously display the time on the **Start** screen.

- 1 Press **Menu 4 2 2** (**Settings > Time settings > Clock settings**).

- 2 Scroll to **Hide clock** or **Show clock** (only one choice appears, depending on the current setting).
- 3 Press **Select**.

## Set automatic update of date and time

If this feature is supported by your wireless service provider, it automatically updates the clock in your phone in accordance with the current time zone. This may be helpful if you are traveling from New York to California, for example, and want to receive the local time from the wireless network.

- 1 Press **Menu 4 2 4** (**Settings > Time settings > Auto update of date and time**).
- 2 Scroll to one of the following options, then press **Select**:
  - **On**: Updates the date and time automatically.
  - **Confirm first**: Requires you to confirm that you want the update.
  - **Off**: Prevents the date and time from being automatically updated.

## • USE CALLER GROUPS

You can create groups of names in your phone book and give each group a different ringing tone. When someone from that group calls, you'll know because of the ringing tone.

### Add names to a caller group

The name you add to a caller group must first be stored in the phone book.

- 1 From the **Start** screen, scroll to the name or number you want.
- 2 Press **Details**, then press **Options**.
- 3 Scroll to **Caller groups** and press **Select**.
- 4 Choose **Family**, **VIP**, **Friends**, **Business** or **Other**, then press **Select**.

## Remove names from a caller group

- 1 Follow steps 1 through 3 above.
- 2 Scroll to **No group** and press **Select**.

## Assign a ringing tone to a caller group

- 1 From the **Start** screen, press **Names**.
- 2 Scroll to **Caller groups** and press **Select**.
- 3 Scroll to the group you want and press **Select**.
- 4 Scroll to **Group ringing tone** and press **Select**.
- 5 Scroll to the tone you want to hear for this caller group and press **Select**.



**Tip:** You can set your phone to ring *only* when people from certain caller groups call you, and to be silent for all other call groups.

## 12

## Rename a caller group

You can rename any call group with a name of your own.

- 1 Follow steps 1 through 3 above.
- 2 Scroll to **Rename group** and press **Select**.
- 3 Enter the group name, then press **OK**.

## Assign group graphic

Each caller group has a picture associated with it. When you get a call from someone in a caller group, the graphic flashes on the screen.

To turn the graphic on for a caller group:

- 1 Press **Names**, scroll to **Caller groups**, and press **Select**.
- 2 Scroll to the name of the group and press **Select**.
- 3 Scroll to **Group logo** and press **Select**.



**Note:** To see the group graphic before you select it, scroll to **View graphic** and press **Select**. Press **Back** to return to the menu.

- 4 Scroll to **On** and press **Select**.

To turn the graphic off, follow the steps above, but scroll to **Off** in the last step.

#### SEND A GRAPHIC TO SOMEONE ELSE

- 1 Follow steps 1 through 3 above.
- 2 Scroll to **Send logo**, then press **Select**.
- 3 Enter the phone number or scroll to find it in your phone book, then press **OK**.

#### VIEW A RECEIVED GRAPHIC

- 1 When you receive a graphic from someone else, **Group logo received** appears.
- 2 To view the graphic, press **Show**.
- 3 After viewing the graphic, press **Options** and then choose:
  - **Save** to save it (you must choose which caller group gets the new graphic)
  - **Discard** to delete it
- 4 Press **Select**.

12

## • RESTORE FACTORY SETTINGS

You can use **Menu 4 8 (Settings > Restore factory settings)** to reset some of the phone settings to their original values.




**Caution:** Restoring factory settings does not erase your phone book. However, it does erase all customized settings you may have entered.


- 1 Press **Menu 4 8 (Settings > Restore factory settings)**.
- 2 Enter the Security code, then press **OK**.

For the default code, see “Security code” on page 90.

## • CHANGE XPRESS-ON™ COLOR COVERS

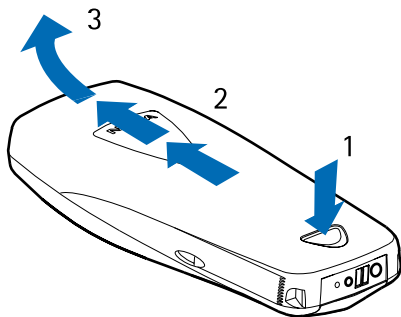
To personalize your Nokia 3590 phone, you can change the front and back covers. Nokia Xpress-on™ color covers, reactive covers (glow-in-the-dark), active covers, and gaming covers may be purchased from your authorized Nokia dealer.

 **Important:** Before changing the cover, always switch off the power and disconnect the phone from the charger or any other device. Always store the phone with the covers attached.

 **Important:** When changing covers, remove the back cover first, then the front cover. When replacing covers, place the front cover on first, then the back cover.

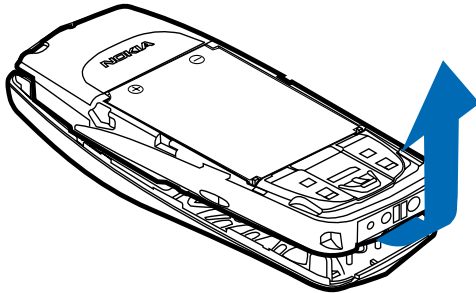
### Remove the back cover

- 1 With the back of the phone facing you, press and hold the back cover release button.
- 2 Slide the cover up.
- 3 Lift the cover off of the phone.



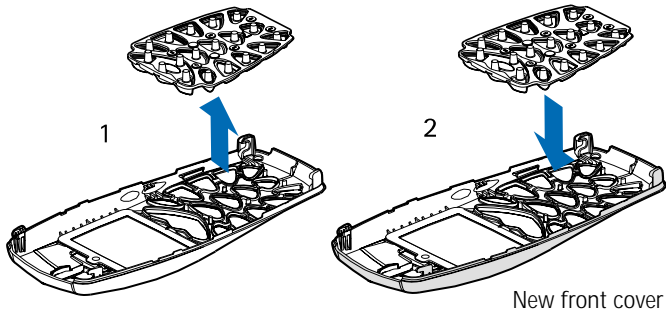
## Remove the phone from the front cover

With the back of the phone facing you, gently separate the cover from the phone, starting at the bottom.



## Change the keypad

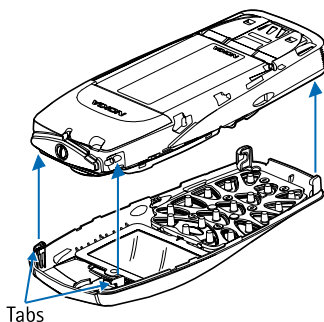
- 1 Lift the keypad from inside the old front cover.
- 2 Place the keypad into the new front cover.





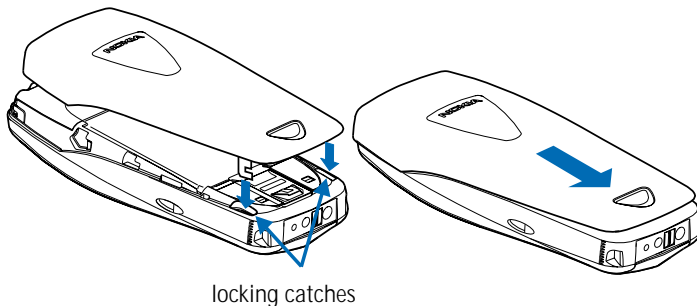
## Replace the new front cover

- 1 To replace the front cover, align the top of the phone with the top of the front cover. Make sure both sets of plastic tabs line up with their slots, as shown at right.
- 2 Align the cover and snap it shut all the way around the edge of the phone.



## Replace the back cover

- 1 Direct the back cover towards the locking catches on the phone.
- 2 Slide the back cover until it locks into place.





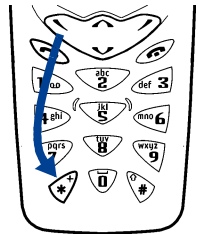
# 13 Manage phone security

Your phone is equipped with different security features that allow you to do the following:

- avoid making accidental calls,
  - prevent unauthorized use of your phone, and
  - restrict outgoing or incoming calls.
- **LOCK THE KEYPAD (KEYGUARD)**

Keyguard disables your keypad to prevent accidental key presses (for example, when your phone is in your pocket or purse).

- To lock the keys, press **Menu**, then .
- To unlock the keys, press **Unlock**, then .




## Automatic keyguard

You can have your phone automatically lock the keys after a time you specify.

- 1 Press **Menu 4 4 2** (**Settings > Phone settings > Automatic keyguard**).
- 2 Scroll to **On**, then press **Select**.
- 3 Set the delay time, then press **OK**.

## Notes about Keyguard



**Note:** When Keyguard is on, calls may be possible to emergency numbers (for example, 911 or other official emergency number). Key in the emergency number and press . The number is displayed only after you have keyed in its last digit.

- Connecting your phone to a car kit automatically disables Keyguard.

- Keyguard does not prevent unauthorized use of your phone.

## • ABOUT SECURITY CODES

The following table summarizes how different types of security codes are used in your phone.

Code	Purpose
<b>Security code</b>	<p>Use the security code for the following procedures:</p> <ul style="list-style-type: none"> <li>• Reset call timers (page 51)</li> <li>• Clear the data counter (page 53)</li> <li>• Clear the connection timer (page 53)</li> <li>• Restore factory settings (page 83)</li> <li>• Erase your entire phone book (page 47)</li> </ul> <p>If phone security is on, the phone requests the security code the first time you use it after installing a new SIM card.</p>
<b>PIN code</b>	<p>You can use the PIN code to protect against unauthorized calls if the following conditions are met:</p> <ul style="list-style-type: none"> <li>• The PIN code request is turned on</li> <li>• The phone is powered off</li> </ul> <p>The next time the phone is turned on, you must enter the correct PIN code to make calls or use the menus.</p>
<b>PIN2 code</b>	<p>Enter the PIN2 code for the following procedure:</p> <p>Use fixed dialing (page 91)</p>
<b>Restriction password</b>	<p>Required by the restrict calls feature.</p>

## • PIN CODES

The PIN (Personal Identity Number) and PIN2 codes are 4- to 8-digit numbers that usually come from your service provider along with the SIM card. Use the PIN code to protect your phone and SIM card against unauthorized use. The PIN2 code activates some of your phone's functions, such as Call cost limit. See "Manage call costs" on page 52.

When the phone requires the PIN or PIN2 code, it displays **Enter PIN code:** or **Enter PIN2 code:**.

Enter the code then press **OK**.

## Set PIN code request

You can activate the PIN code request to prevent unauthorized use of your phone. If you set the PIN code request to **On**, your phone will ask for the code each time you turn the phone on.



**Note:** When the phone is locked, calls may be possible to the emergency number programmed into your phone (for example, 911 or other official emergency number).

- 1 Press **Menu 4 7 1** (**Settings > Security settings > PIN code request**).
- 2 Enter the PIN code supplied by your service provider, and press **OK**.
- 3 Scroll to **On** and press **OK**.

13

To turn off this feature, repeat steps 1 through 3 above, but select **Off** in step 3.

## Change your PIN or PIN2 code

You can change your PIN or PIN2 code to any 4- to 8-digit number.



**Tip:** Activate the PIN code request first.

- 1 Press **Menu 4 7 6** (**Settings > Security settings > Change access codes**).
- 2 Scroll to **Change PIN code**, then press **Select**.

- 3 Enter the current PIN code and press **OK**.
- 4 Enter the new PIN code and press **OK**.
- 5 Enter the new PIN code again to verify, and press **OK**.



**Note:** If you make a mistake while entering the code, **Code Error** appears. Start again at step 2 and be careful to enter the correct code. If you enter the wrong code three times in a row, the PIN code is blocked. To unblock the PIN code, you need a Personal Unblocking Key (PUK) from your service provider.

## • PUK CODES

The PUK and PUK2 codes are 4- to 8-digit codes that also usually come from your service provider along with the SIM card. The PUK code unblocks a blocked PIN code, and the PUK2 code unblocks a blocked PIN2 code.

If you block your phone, contact your service provider. When you enter the PUK code given by your service provider, the phone prompts you to enter and then confirm a new PIN code.

# 13

## • SECURITY CODE



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

You need the security code to access certain phone features. When the phone requires the security code, it displays **Security code**:

Enter the code then press **OK**.

If you enter an incorrect security code five times in a row, the phone will not accept the correct code for 5 minutes.

## Change the security code

- 1 Press **Menu** 4 7 6 (**Settings** > **Security settings** > **Change access codes**).

- 2 Scroll to **Change security code** and press **Select**.
- 3 Enter the current security code, then press **OK**.
- 4 Enter the new security code, then press **OK**.
- 5 Enter the security code again to verify, then press **OK**.



**Important:** Keep the code secret and in a safe place, separate from the phone.

## • USE FIXED DIALING

If supported by your SIM card, this feature lets you restrict your outgoing calls to phone numbers included in the fixed dialing list or beginning with the same digit(s) as an entry in the list.



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

## Turn fixed dialing on or off

- 1 Press **Menu 4 7 3** (**Settings** > **Security settings** > **Fixed dialing**).
- 2 Scroll to **On** or **Off**, then press **Select**.
- 3 Enter your PIN2 code, then press **OK**.

## Add numbers to the fixed dialing list

- 1 Press **Menu 4 7 3** (**Settings** > **Security settings** > **Fixed dialing**).
- 2 Scroll to **Number list**, then press **Select**.
- 3 Scroll to **Add**, then press **Select**.
- 4 Enter your PIN2 code and press **OK**.
- 5 Enter a name to go with the restricted phone number, then press **OK**.
- 6 Enter the phone number you want to restrict, then press **OK**.

Repeat steps 3 through 6 for each number you want to add to the list.

## • RESTRICT CALLS

This network service lets you restrict the calls your phone can make and receive. Check with your service provider for details.



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

## About the restriction password

Contact your service provider for the restriction password.

## Turn on call restrictions

- 1 Press **Menu 4 7 2** (**Settings > Security settings > Call restrictions**).
- 2 Scroll through the types of calls you can restrict, and press **Select** when you see the one you want.

**Outgoing calls:** Calls cannot be made.

**International calls:** Calls cannot be made to foreign countries.

**International except to home country:** When abroad, calls can be made only within the current country and to your home country (that is, the country where your home network operator is located).

**Incoming calls:** Calls cannot be received.

**Incoming calls if roaming:** Calls cannot be received outside your home area.

**Cancel all call restrictions:** Turns off all call restrictions. Calls can be made and received in the usual way.



**Note:** If you selected **Cancel all call restrictions**, the following steps are not available. Also, you can cancel call restrictions on each option, allowing restrictions on other options to stay in force.

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

**Activate:** Enter the restriction password and press **OK**.

**Cancel:** Enter the restriction password and press **OK**.

**Check Status:** The phone lists the call types with call restriction active.

## Change your restriction password

- 1 Press **Menu 4 7 6** (**Settings > Security settings > Change access codes**).
- 2 Scroll to **Change restriction password**, then press **Select**.
- 3 Enter your current password, then press **OK**.
- 4 Enter your new password, then press **OK**.
- 5 Verify the new password, then press **OK**.

## • SET UP A CLOSED USER GROUP

This network service specifies the group of people to whom you can call and who can call you. **Default** resets the phone to use a user group that the SIM card owner has agreed upon with the service provider.



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

## Turn closed user group on/off

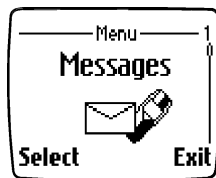
- 1 Press **Menu 4 7 4** (**Settings > Security settings > Closed user group**).
- 2 Scroll to **On** or **Off**, then press **Select**.
- 3 Enter the group number, then press **OK**.



# 14 Communicate with mobile messages

You can use mobile messages to keep in touch with friends, family and business associates. Your Nokia 3590 phone allows you to do the following:

- Send and receive text messages
- Communicate with e-mail
- Chat online with other phone users
- Receive and view multimedia messages (MMS)
- Send and receive picture messages



Not all messaging features are available in all wireless networks. Contact your service provider for availability and subscription information.



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

## 14 • MESSAGE SETTINGS

Before you can send and receive messages you must:

- Have a text messaging subscription through your service provider.
- Contact your service provider for the message center number.
- Save your message center number in your phone.
- Set up other message settings, such as GPRS.

### Save your message center number



**Note:** Your service provider supplies the message center number.

- 1 Press **Menu**, then press **Select**.

- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Text messages**, then press **Select**.
- 4 Scroll to **Sending profile**, then press **Select**.

If your SIM supports more than one message profile, choose a profile, then press **Select**.

- 5 Scroll to **Message center number**, then press **Select**.
- 6 Enter your message center number, then press **OK**.

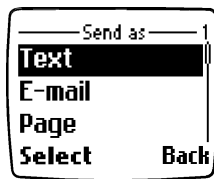
## Set the message mode

You can choose the type of message sent by your phone. The message modes include Text, E-mail, Fax and Page.


 **Note:** The default message type is text.

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Text messages**, then press **Select**.
- 4 Scroll to **Sending profile**, then press **Select**.

If your SIM supports more than one message profile, choose a profile, then press **Select**.



- 5 Scroll to **Messages sent as**, then press **Select**.
- 6 Scroll to **Text**, **E-mail**, **Page**, or **Fax**, then press **Select**.

 **Note:** In order to receive a converted message, the recipient needs to have the appropriate terminal device, such as a pager or fax machine. E-mail messages can be sent to a mobile phone or personal computer.

## Adjust font size

You can modify the font size for message displays. The font size you choose appears in messages when you are reading or editing, and in message lists.

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Text messages**, then press **Select**.
- 4 Scroll to **Font size**, then press **Select**.
- 5 Scroll to **Small font** or **Large font**, then press **Select**.

## Choose other message settings

You can modify the following message settings, under **Messages** > **Message settings** > **Text messages** > **Sending profile**. For menu locations, see “List of menu shortcuts” on page 26



**Note:** The following list is dynamic. The order and number of items may vary.

Choice	What it does
Message validity	Allows you to select the length of time that the message center will try to deliver a message. You can choose a time from one hour to one week. If the message center cannot deliver the message within this time, the message is deleted.
Default recipient number	Allows you to specify a single recipient for all your messages. This option is not available when you choose “Messages sent as e-mail.”

Choice	What it does
E-mail server	Allows you to store e-mail server information in your phone so that you do not have to enter the number each time you compose a new e-mail message. This option only shows up if you have set the message mode to <b>E-mail</b> . Contact your service provider for the server number.
Delivery reports	Allows you to ask the network for a report about message delivery.
Use GPRS	Allows you to send your messages via the General Packet Radio System (GPRS).
Reply via same center	Choose this when you want your recipient to reply through the same message center. <b>Note:</b> Do not choose <b>Yes</b> unless you know the recipient has the same service provider.
Rename sending profile	Allows you to name the profile. This option depends on SIM card. <b>Note:</b> This option is not available for the default profile.

## • SEND AND RECEIVE TEXT MESSAGES

You can use the text message feature to compose and send a short text message to another phone.



**Tip:** Review ABC mode and predictive text input from “Enter letters and numbers” on page 33 before reading this section.

## Send text messages

- 1 Press **Menu 01 1** (**Messages** > **Write message**).
- 2 Enter a message.

You can compose one long message made up of several linked parts. Each part can be up to 160 characters. The counter in the upper right corner shows the number of available characters. For example, 160/2 refers to 160 characters available in the second part of the message.


Contact your service provider for information on pricing.

- 3 Once you have finished writing, press **Options**, scroll to **Send**, then press **Select**.
- 4 Enter or recall the recipient's phone number, then press **OK**.



**Note:** When sending messages via the SMS network service, your phone may display the words **Message Sent**. This is an indication 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.



**Caution:** If you need to exit while writing the message, press  anytime. Later, press **Menu 01 1** to return and finish writing the message. If you turn off the phone without saving the message, the message will be lost.

14

## Save messages in the outbox


When you write a text message, it's a good idea to save it in the outbox. Then if there is a message delivery problem, you can easily resend the message.

- 1 While writing the message, press **Options**.
- 2 Scroll to **Save message**, then press **Select**.
- 3 Scroll to **Outbox**, then press **OK**.

## Resend a message from the outbox

- 1 Press **Menu**, then press **Select**.
- 2 Scroll to **Outbox**, then press **Select**.
- 3 Scroll to the message you want to resend, then press **Select**.  
The message appears on the screen.
- 4 Press **Options** and scroll to **Send**, then press **Select**.
- 5 Scroll to **Text** or **E-mail**, then press **Select**.
- 6 Enter the number or e-mail address and press **OK** to send the message.

## Read a new text message

When you receive a text message, the phone beeps and displays **Message received** and the  indicator in the upper left corner of the screen.

To read the message now, press **Show**.

## Read a new text message later

- 1 When you receive a text message, press **Exit**.
- 2 Later when you want to read the message, press **Menu**, then press **Select**.
- 3 Scroll to **Inbox**, then press **Open**.  
A list of message headers is displayed.



Indicates that a text message has been read.



Indicates that a text message has *not* been read.

- 4 Scroll to the message you want, then press **Select**.
- 5 If the message is long, use the scroll keys to scroll through the message.

## Read linked messages

Your phone can receive one long message (up to 459 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.

## Choose text message options

While reading or viewing a message, you can choose one of the following options listed in the table below.



**Note:** The following list is dynamic. The order and number of options may vary.

Choice	What it does
Erase	Allows you to delete the message.
Send	Allows you to send the message.
Reply	Allows you to start your reply with an empty screen, a template or with standard replies "Yes," "No," "Thank you," "I love you too".
Use number	Allows you to extract numbers from the current message. The phone goes through and gathers all phone numbers in the message, including the originating address.
Forward	Allows you to send the message to another recipient.
Edit	Allows you to modify the message.

Choice	What it does
Move	Allows you to move the message to the Outbox or Archive, for example.
Rename	Allows you to enter a new title for the message.
Copy to calend.	Copies the message to your phone's calendar as a reminder note. This option is not available for picture messages.
Details	Shows, for example, the sender's name and phone number, message center used, reception date and time.
Chat	Allows you to start an online conversation.
Save picture	Allows you to save a picture to the template folder. This option only appears in the list if you receive a picture message.

## • COMMUNICATE WITH E-MAIL

You can send e-mail messages to friends and family directly from your phone if you sign up for this service with your service provider.

There are two ways of sending an e-mail message.

- You can send an e-mail message from the **Messages** menu.
- You can send an e-mail message from the phone book.



**Tip:** Before you send e-mail messages, you need to set up a profile to define the e-mail server. Contact your service provider for the e-mail server number.



## Define an e-mail sending profile

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Text messages**, then press **Select**.
- 4 Scroll to **Sending profile**, then press **Select**.

If your SIM supports more than one message profile, choose a profile, then press **Select**.

- 5 Scroll to **Messages sent as**, then press **Select**.
- 6 Scroll to **E-mail**, then press **Select**.
- 7 Scroll to **E-mail server**, then press **Select**.
- 8 Enter the e-mail server number, then press **Options**. Scroll to **Accept**, then press **Select**.

## Send an e-mail message

### FROM THE MESSAGES MENU

- 1 Press **Menu 01 2 (Messages > Write e-mail)**.

- 2 Enter the e-mail address, then press **OK**.

OR

If you have already saved an e-mail address in the phone book, press **Find**, scroll to the person's name, then press **OK**.

- 3 Enter a subject, then press **OK**. Press **OK** to confirm.
- 4 Enter a message.


The number of available characters appears in the upper right corner of the screen.

- 5 Once you have finished writing, press **Options**, scroll to **Send e-mail**, then press **Select**.

A confirmation note appears.

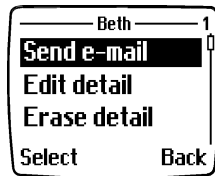
## FROM THE PHONE BOOK

First you must have an e-mail address entered into the phone book. See "Save names, numbers and e-mail addresses" on page 40 for instructions.

- 1 Press , then scroll to the person to whom you want to send an e-mail message,
- 2 Press **Details**, scroll through the list until the e-mail address is highlighted, then press **Options**.



- 3 With **Send e-mail** highlighted, press **Select**.




- 4 Enter a subject, then press **OK**.
- 5 Enter a message.

The number of available characters appears in the upper right corner of the screen.

- 6 Once you have finished writing, press **Options**. With **Send e-mail** highlighted, press **Select**.

## Receive an e-mail message

When you receive an e-mail message, the phone beeps and displays **Message received** and the  indicator in the upper left corner of the screen.

To read the message now, press **Show**.

When reading a received e-mail message, you can choose other options, such as **Reply**, **Forward** or **Chat**. See “Choose text message options” on page 100 for a list of options.

## • CHAT WITH OTHER PHONE USERS

You can have a conversation with another person using text messages, if you have signed up for this network service from your service provider.

Chat is designed for fast message sending through a connection between the sender and receiver. Both sending and receiving parties must have a phone with the chat feature. If the receiving phone does not support chat, the messages are displayed as short text messages.

You can start by using the chat menu or by selecting the chat option while you're reading a received message.

### About the chat screen

On the chat screen, you'll see:

- your chat name, followed by a message
- your initial message appear at the bottom of the screen
- each reply appear above the last message

< Sue: Dana's office.  
> Tom: Where?  
< Sue: Tom, we have  
a meeting at 3:00.

OK

14

### Start a chat session

- 1 Press **Menu**, then press **Select**. Scroll to **Chat**, then press **Select**.
- 2 Enter the other party's phone number or recall it from the phone book and press **OK**.
- 3 Enter your chat name and press **OK**.

- 4 Write your chat message, then press **Options**. With **Send** highlighted, press **Select**.

The reply from the other party is shown above your original message.

- 5 Press **OK** to clear the screen and reply to the message.



**Note:** You can start a chat session when replying to a regular text message as well. When reading the message, select **Options**, then select **Chat**.

## Use a template

Your phone comes with ten message templates that can be used to speed up your chat session. For example, you can use a template to say that you are running late.

- 1 From the message screen press **Options**.
- 2 Scroll to **Use template**, then press **Select**.

## Use predictive text for quick replies

When you are in a chat session, you can use the phone's dictionary to help speed up text entry. For more information see "Predictive text input" on page 36.

- 1 From the message screen press **Options**.
- 2 Scroll to **Predictive text**, then press **Select**.
- 3 Scroll to the language you want, then press **Select**.

## View chat history

You can view messages sent and received during the active chat session.

- 1 From the message screen press **Options**.
- 2 Scroll to **Chat history** and press **Select**.


## Change your nickname

- 1 From the message screen press **Options**.
- 2 Scroll to **Chat name**, then press **Select**.
- 3 Enter your new nickname, then press **OK**.

## End your chat session



**Note:** Once you exit your chat session, the messages are deleted automatically. There is no way to save the chat history.

- 1 From the message screen press **Options**.
- 2 Scroll to **Quit** and press **Select**.  
OR  
Press .

## • STORE MESSAGES


14

### Save a message to a folder

You can save a message to an existing folder or a folder you've created.

- 1 Press **Menu 01 1 (Messages > Write message)**.  
After a brief pause, the message entry screen appears in the display.
- 2 Write your message and press **Options**.
- 3 Scroll to **Save message** and press **Select**.
- 4 Scroll to the folder where you'd like to save the message and press **OK**. The message is saved.

### Inbox folder

Messages are automatically stored in the inbox after they've been read or if you press  when **Message received** appears on the **Start** screen.

## Outbox folder

You can use the Outbox to store saved messages.

## Archive folder

To make sure that certain messages won't be overwritten when memory becomes full, move some of your messages to the **Archive** folder.

## Templates folder

Pictures and prewritten templates are stored in the **Templates** folder.

## My folders

Keep your messages organized by creating custom folders and saving your messages there.

### ADD A FOLDER OF YOUR OWN

- 1 At the **Start** screen, press **Menu**, then press **Select**.
- 2 Scroll to **My folders**, then press **Select**.
- 3 Press **Options**. **Add folder** is highlighted. Press **OK**.
- 4 Enter a name for the new folder and press **OK**. The folder is added.

### REMOVE A FOLDER


Only folders created in **My folders** can be deleted. The **Inbox**, **Outbox**, **Archive**, and **Template** folders are protected. When you delete a folder, all messages in the folder are deleted as well.

- 1 At the **Start** screen, press **Menu**, then press **Select**.
- 2 Scroll to **My folders**, then press **Select**. Any folders that you've created appear in the display.
- 3 Scroll to the folder you wish to remove and press **Options**.
- 4 Scroll to **Delete folder** and press **OK**.
- 5 Press **OK** if you wish to delete and **Back** if you wish to exit.

## Move a message to a folder

- 1 While viewing the message, press **Options**.
- 2 Scroll to **Move** and press **Select**.
- 3 Scroll to the destination folder and press **Select**. The message is moved.

## • ERASE MESSAGES

If your message memory becomes full, the message icon  blinks in the display. You can do the following to create more space:

- Read some of the unread messages and then erase them.
- Erase some of these messages from your folders.

### Erase a single message

To erase a single message, you need to open it first.

- 1 Press **Menu 01 (Messages)**.

After a brief pause, **Write message** appears in the display.

- 2 Scroll to the folder containing the message you wish to erase and press **Select**.

A list of messages appears in the display.

- 3 Scroll to the message you wish to erase and press **Select**. The message opens.
- 4 Press **Options**, scroll to **Erase**, and press **Select**.
- 5 You're asked to confirm the erasure. Press **OK** to erase the message.

### Erase all messages in a folder

- 1 At the **Start** screen, press **Menu**, then press **Select**.
- 2 Scroll to **Erase messages**, then press **Select**.

- 3 Scroll to the desired folder or message type that you wish to erase and press **Select**. You're asked to confirm your erasure.
- 4 Press **OK** to empty the folder.

## • SEND AND RECEIVE PICTURE MESSAGES

Picture messages are like picture postcards. You can add text to the postcard before sending the message to a friend.

There are two places you can find pictures:

- Under **Messages > Templates**
- Under **Messages > Pictures**

You can also save new pictures in the Templates folder.

## Notes about picture messages

- This 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 a picture message.
- Each picture message is made up of several text messages. Therefore, sending one picture message may cost more than sending one text message. Contact your service provider for pricing information.
- Since pictures are saved in the phone's memory, you cannot view them if you use your SIM card with another phone.

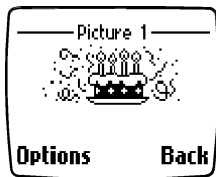


**Tip:** Before sending a picture message, be sure to set the message mode to **Text**. See "Set the message mode" on page 95 for instructions.



## Send picture messages

- 1 Press **Menu**, then **Select**.
- 2 Scroll to **Templates**, then press **Select**.
- 3 Scroll up to the picture you want to send, and press **Select**.



The picture appears. To choose a different picture, press **Back**, scroll to another picture, then press **Select**.

- 4 Press **Options**, scroll to **Send**, then press **Select**.
- 5 Scroll to **As text msg.**, then press **Select**.
- 6 Press **Options**. Scroll to **Send**, then press **Select**.
- 7 Recall or enter the phone number.



**Note:** The phone number you choose must be able to receive picture messages.

- 8 Press **OK**.


## Attach a picture to a text message

- 1 Press **Menu 01 1 (Messages > Write message)**.
- 2 Enter your message, then press **Options**.
- 3 Scroll to **Attach picture**, then press **Select**.
- 4 Scroll to the picture you want to send, then press **View**.
- 5 After viewing the picture, select **Attach**.
- 6 Select **Options**, scroll to **Send**, then press **Select**.
- 7 Enter the phone number or recall a number from your phone book, then press **OK**.



**Note:** The phone number you choose must be able to receive picture messages.

## Receive picture messages

When you receive a picture message, the phone beeps and displays **Message received** and the  indicator in the upper left corner of the screen.


To read the message now, press **Show**.

To read the message later, press **Exit**.

## Read a new picture message later

- 1 When you want to read the message, press **Menu**, then press **Select**
- 2 Scroll to **Inbox**, then press **Select**.

A list of message headers is displayed.

 Indicates that a picture message has not been read.

 Indicates that a picture message has been read.

- 3 Scroll to the message you want, then press **Select**.
- 4 If the message is long, use the scroll keys to view the message.

## Save picture messages

- 1 While viewing the message, press **Options**.
- 2 Scroll to **Save picture**, then press **Select**.
- 3 Enter a title for the picture, then press **OK**.

A confirmation note appears. The picture is saved to the **Templates** folder.

## Save picture messages with edited text

- 1 While viewing the message, press **Options**.
- 2 Scroll to **Edit text**, then press **Select**.

- 3 Scroll to **As text msg.**, then press **Select**.
- 4 Make changes to the text, then press **Options**.
- 5 Scroll to **Save message**, then press **Select**.
- 6 Choose **Outbox**, **Archive**, or **Templates**, then press **Select**. If the phone prompts you to replace the original, press **OK**.

## Choose a picture for a screen saver

- 1 Press **Menu**, then press **Select**.
- 2 Scroll to **Pictures**, then press **Select**.
- 3 Scroll to the image you want, then press **Options**.
- 4 Scroll to **Use as s. saver**, then press **Select**.

## • RECEIVE MULTIMEDIA MESSAGES (MMS)

A multimedia message (MMS) can contain text, images, and sounds.

Your phone has a multimedia message viewer for playing messages and a multimedia inbox for storing saved messages.

Once you save the multimedia message, you can use the image as a screen saver or the sound as a ringing tone.



**Note:** MMS is a network service. Contact your service provider for availability and subscription information.

## Message receiving limitations

Your phone can receive a multimedia message if

- the message size is under 30 KB, and
- the message type and settings allow reception.

## Define MMS settings

Before you can use the multimedia message feature, you need to first define the way you want to receive the messages.



**Note:** The default setting of the multimedia message service is on, and your operator or service provider may charge you for every message you receive.

### ALLOW MULTIMEDIA RECEPTION

You can choose to receive all messages or to receive messages only when you are in the service provider's home network.

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Multimedia msg.**, then press **Select**.
- 4 Scroll to **Allow multimedia reception**, then press **Select**.
- 5 Scroll to one of the following, then press **Select**:
  - **Yes** to allow all incoming messages
  - **In home system** to allow incoming messages only if you are in the service provider's home system.
- 6 Scroll to **Incoming multimedia messages**, then press **Select**.
- 7 Scroll to **Retrieve**, then press **Select**.

### BLOCK ALL MESSAGES

If you do not want to receive any multimedia messages, follow these instructions.

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Multimedia msg.**, then press **Select**.
- 4 Scroll to **Allow multimedia reception**, then press **Select**.
- 5 Scroll to **No**, then press **Select**.

### ALLOW ADVERTISEMENTS

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Multimedia msg.**, then press **Select**.

- 4 Scroll to **Allow advertisements**, then press **Select**.
- 5 Scroll to **Yes**, then press **Select**.

#### **BLOCK ADVERTISEMENTS**

- 1 Press **Menu**, then press **Select**.
- 2 Scroll up to **Message settings**, then press **Select**.
- 3 Scroll to **Multimedia msg.**, then press **Select**.
- 4 Scroll to **Allow advertisements**, then press **Select**.
- 5 Scroll to **No**, then press **Select**.

#### **ABOUT CONNECTION SETTINGS**

Contact your service provider for information about downloading appropriate connection sets for the multimedia message service.

### **View a multimedia message**

When you receive a multimedia message, the phone beeps and displays **Multimedia message received**.

To view the message now, press **Show**. You can use the scroll keys to view the different elements of the message, for example, text, images or MIDI tones.

14

### **Discard a multimedia message**

To discard the message, press **Exit**, then press **OK** to confirm.

### **Choose multimedia message options**

- 1 While viewing a message, press **Options**.
- 2 Scroll to one of these choices listed in the table, then press **Select**.



**Note:** The following list is dynamic. The order and number of options may vary.

Choice	What it does
Play	Allows you to play the ringing tone when the sound clip part of the multimedia message is active
Save tone	Allows you to save the ringing tone when the sound clip part of the multimedia message is active. The tone is saved under the ringing tone list. See “Customize a profile” on page 69 for information about choosing a ringing tone.
Save image	Allows you to save the image when the graphic part of the multimedia message is active. The image is saved under <b>Messages &gt; Pictures</b> .
Save message	Allows you to save the multimedia message in the <b>Multimedia inbox</b>
Erase message	Allows you to delete a saved multimedia message
Discard	Allows you to delete a newly received multimedia message
Details	Shows information such as the sender’s name, subject, type of file, file size, time and date

- **USE THE INFO MESSAGE SERVICE**

With the info message network service, you can receive short text messages on various topics, such as weather and traffic conditions, from your service provider. Info message selections can be found under **Messages > Info messages**.



**Note:** For available topics and relevant topic numbers, contact your service provider.

- **USE THE SERVICE COMMAND EDITOR**

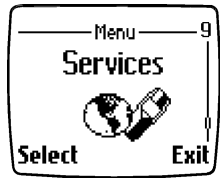
Use the **Service command editor** to key in and send service requests (also known as USSD commands) to your service provider.



**Note:** For more information, contact your service provider.

# 15 Your WAP browser

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



- **NOTES ON MOBILE INTERNET ACCESS**

This section gives a brief overview of mobile Internet technology.

## Technology background

### WAP

A technology called Wireless Application Protocol (WAP) is to mobile devices what the World Wide Web (WWW) is to personal computers. The mobile community began developing WAP several years ago to provide access to Internet sites designed for mobile users.

Today, most WAP 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 WAP 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,” “WAP card,” or a “Deck of cards.”

### GPRS

General Packet Radio Service (GPRS) is a technology used to send and receive data via short bursts or packets over the wireless network. GPRS allows you to stay connected to the Internet. This feature allows for faster downloads of information and no time spent completing a dial-up connection. Applications using GPRS include the WAP browser and text messaging.



- For information about how to track time spent online, see “Check data calls” on page 52.
- For information about sending messages via GPRS, see the entry for **Use GPRS** under “Choose other message settings” on page 96.
- For availability, pricing, and subscription to GPRS services, contact your service provider.

## The service provider’s role

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

It’s likely that your service provider has 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’ll find links to a number of other sites.

## • SET UP FOR BROWSING

You should not need to do anything to set up your phone for browsing. Your service provider usually modifies the appropriate settings when you subscribe to the feature. Contact your service provider if you have problems using the browser.

15

## • SIGN ON TO THE MOBILE INTERNET

You use the **Services** menu to connect to the mobile 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.

- 1 Press **Menu 9 (Services)**.
- 2 Scroll to **Home**, then press **Select**.

Your phone connects to the mobile Internet and to your service provider’s home page.

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

## • USE BROWSER OPTIONS

The **Services** menu gives you the options shown in the following list.






Some service providers may have customized the options on the **Services** menu. Contact your service provider for more information if any of the options shown here are not available.

Choice	What it does
Home	Starts the browser and takes you to your service provider's home page.
Bookmarks	Shows a list of all saved bookmarks. Bookmarks help you find a WAP site quickly.
Service inbox	Allows you to receive notifications from your service provider. Notifications may be about new e-mail messages, changes in stock prices or news headlines.
Settings	Provides options for changing connection settings, appearance settings, and authority certificate.
Go to address	Accepts an address you enter.
Clear the cache	Empties the browser's temporary memory and frees up space. It's advisable to empty your cache at the end of each session.

## • NAVIGATE THE MOBILE INTERNET

Since your phone's screen is much smaller than a computer screen, Internet content is displayed in a different format than you may be used to seeing. This section shows simple guidelines for using the phone's keys to navigate a WAP site. Examples of how to read a WAP site follow the guidelines.

### General guidelines for using the phone keys

- Use the scroll keys to browse the WAP site. 
- To select a highlighted item, press .
- To enter letters and numbers, press the keys  to .
- To enter special characters, press the  key.

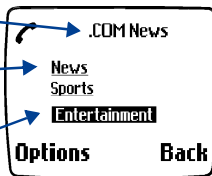
### Examples of mobile Internet sites



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

**Header line:** shows the current Internet site.

**Inactive link:** appears as an underlined word.

**Active link:** appears as a highlighted word.

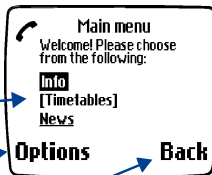


Use  and  to scroll through the list of links.

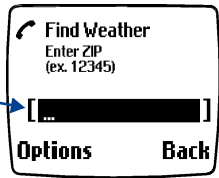
**Selection list:** Brackets [ ] appear when you have the option to enter information.

**Options:** Press **Options** to go to the site's menu and/or browser page.

**Back:** Press **Back** to return to the previous page.



**Data entry field:** Brackets [ ] around three dots appear 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.

### Set a bookmark

You can add up to 50 bookmarks.

- 1 Press **Menu 9 2** (**Services > Bookmarks**), then press **Options**.
- 2 Scroll to **New bookmark**, then press **Select**.
- 3 Enter address, then press **OK**.
- 4 Enter a title, then press **OK**.

### Set a bookmark while browsing

- 1 Press **Menu 9 1** (**Services > Home**), then press **Options**.
- 2 Scroll to **Add bookmark**, then press **Select**.

## • DISCONNECT FROM THE MOBILE INTERNET

To close your connection, simply press .

## • SECURITY ISSUES

### Clear the cache memory



**Note:** The information or services you have accessed may be stored in the cache of your phone. A cache is a buffer memory, which is used to store data temporarily. If you have 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 Press **Menu 9 (Services)**.
- 2 Scroll to **Clear the cache**, then press **Select**.

#### CLEAR THE CACHE WHILE BROWSING

- 1 Press **Options**.
- 2 Scroll to **Clear the cache**, then press **Select**.

### About authority certificates

To use some WAP 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 a WAP server.

15

You can download the certificate from a WAP page if the WAP 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 WAP server or WAP gateway cannot be verified or is not authentic.

#### VIEW THE LIST OF AUTHORITY CERTIFICATES

- 1 Press **Menu 9 (Services)**.
- 2 Scroll to **Settings**, then press **Select**.
- 3 Scroll to **Authority certificates**, then press **Select**.

## • NOTES ABOUT GPRS





When you use GPRS to connect to the mobile Internet, you are making a data call. The following icons appear on the screen to show you the status of your connection.



**Note:** In order to use GPRS, you must first subscribe to the network service. Contact your service provider for details on availability and pricing



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

	<ul style="list-style-type: none"> <li>Shows up in the left upper corner of the screen</li> <li>Indicates an active GPRS connection, for example, when you are using the WAP browser</li> </ul>
	<ul style="list-style-type: none"> <li>Shows up in the left lower corner of the screen, under the signal strength bars</li> <li>Indicates a continuous GPRS connection, if you choose the “always online” setting</li> </ul>
	<ul style="list-style-type: none"> <li>Indicates that circuit switched (CS) or voice calls are not possible when using GPRS for a data call</li> </ul>
	<ul style="list-style-type: none"> <li>Indicates that the GPRS connection has been interrupted by a voice call</li> </ul>

## Set up the GPRS connection

Some service providers may have customized the options on the **Services** menu. Contact your service provider for more information if the options shown here are not available.







**Important:** GPRS may not be available in all wireless networks. The establishment and continuation of a GPRS and Internet connection depends on network availability, service provider support, and signal strength.

You can choose one of the following options from **Services > Settings > Edit active service settings > GPRS connection**:

- **Always online**: the GPRS connection is established when you turn your phone on. The connection continues in the background even after you exit the WAP browser, depending on network coverage.
- **When needed**: the GPRS connection is established when you use the WAP browser and is closed when you exit the WAP browser.



The following table shows how to end your browsing session, depending on which option you have chosen for your GPRS connection.

	<ul style="list-style-type: none"><li>• Press to return to the <b>Start</b> screen if you have selected <b>Always online</b></li><li>• The GPRS connection remains in the background.</li></ul>
	<ul style="list-style-type: none"><li>• Press to end the GPRS connection if you have selected <b>When needed</b></li></ul>
	<ul style="list-style-type: none"><li>• Press twice to return to the <b>Start</b> screen if you have selected <b>When needed</b></li></ul>
	<ul style="list-style-type: none"><li>• Press and hold to end browsing and disconnect from GPRS if you have selected <b>When needed</b></li></ul>

15

## Receive a call while online

If you are using the WAP browser over GPRS, you can still receive a voice call. Your data call is put on hold and you can choose to answer the call.


- To answer the incoming call, press .
- To reject the incoming call, press .



**Note:** After you end your voice call, the GPRS connection automatically resumes.



## Make a call while online

When you are browsing a WAP card and want to make a call to a number on the WAP page, you can select **Use number**. Your phone then searches the information on the WAP card for a string of numbers. You can then choose from the number or numbers displayed to place the call.

An alternate way is to press  to disconnect from the Internet, then place your call by searching the phone book for a name and number or by keying in the phone number.

## Make an emergency call while online

If you are using GPRS to connect to the mobile Internet, you can end your data connection and then make an emergency call.

- 1 To close your mobile Internet connection, simply press .
- 2 Enter the emergency number for your present location (for example, 911 or any other official emergency number—emergency numbers vary by location).
- 3 Press .



# 16 Your personal digital assistant

Your Nokia 3590 phone has many useful features for organizing your everyday life, including a calendar, calculator, and alarm clock. In this chapter, you'll learn how to use your phone as a personal digital assistant.

## • USE THE CALENDAR

The calendar shows a month view and day view. You can use the calendar to keep track of reminders, calls you need to make, and birthdays. You can also set an alarm for calendar notes.



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

## View the calendar



To view today's date in the calendar, press **Menu 5 (Calendar)**.

The first time you access the calendar, your phone prompts you to enter the time and today's date.

16

## Select a day

When you open the calendar, the month view shows today's date highlighted. To move the cursor to a new date:

- Use key 2 to scroll up one week.
- Use key 4 or  to scroll left.
- Use key 6 or  to scroll right.
- Use key 8 to scroll down one week.

## Make a note

When you make a note in your calendar, you can choose from three different types.

 Reminder    Call    Birthday

### ENTER A REMINDER

- 1 Press **Menu 5 (Calendar)**, then press **Options**.
- 2 Scroll to **Make a note**, then press **Select**.
- 3 Scroll to **Reminder**, then press **Select**.
- 4 Enter your note, press **Options**, scroll to **Save**, then press **Select**.
- 5 Scroll to **Alarm on** or **Alarm off**, then press **Select**.

If you have selected **Alarm on**, enter a time, then press **OK**. Scroll to **am** or **pm**, then press **Select**.

### ENTER A CALL NOTE

- 1 Press **Menu 5 (Calendar)**, then press **Options**.
- 2 Scroll to **Make a note**, then press **Select**.
- 3 Scroll to **Call**, then press **Select**.
- 4 Enter the phone number, press **Options**, scroll to **Save**, then press **Select**.
- 5 Enter the person's name, press **Options**, scroll to **Save**, then press **Select**.
- 6 Enter a time, then press **OK**. Scroll to **am** or **pm**, then press **Select**.
- 7 Choose one of the following, then press **Select**.

**No alarm**

**Silent**

**With tone**

If you select **Silent** or **With tone**, you can then choose a time.

## ENTER A BIRTHDAY NOTE

- 1 Press **Menu 5 (Calendar)**, then press **Options**.
- 2 Scroll to **Make a note**, then press **Select**.
- 3 Scroll to **Birthday**, then press **Select**.
- 4 Enter the person's name, press **Options**, scroll to **Save**, then press **Select**.
- 5 Enter the year of birth, then press **OK**.
- 6 Choose one of the following, then press **Select**.

**No alarm**



**Silent**

**With tone**

If you select **Silent** or **With tone**, you can then choose a day and time.

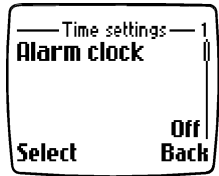
## View calendar notes

After you make a few calendar notes, you can view the day's events.

- 1 From the **Start** screen, press **Menu 5 (Calendar)**.
- 2 At the month view, scroll to the date you want.
  - Use key 2 to scroll up one week.
  - Use key 4 or  to scroll left.
  - Use key 6 or  to scroll right.
  - Use key 8 to scroll down one week.
- 3 With the date highlighted, press **Options**.
- 4 Scroll to **View day**, then press **Select**.

## • USE THE ALARM CLOCK

The alarm clock feature is based on your phone's internal clock and sounds an alert at a time you specify. The alarm clock works even if you turn your phone off.



### Set the alarm clock

- 1 Press **Menu 4 2 1** (**Settings** > **Time settings** > **Alarm clock**).
- 2 Enter the alarm time in **hhmm** format, then press **OK**.
- 3 Select either **am** or **pm**, then press **Select**.

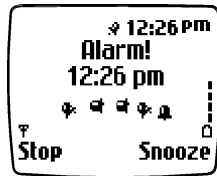
Step 3 is necessary only if you have selected **am/pm** format.

### Manage the alarm

#### PHONE ON

- Press **Stop** to shut off the alarm.
- OR
- Press **Snooze**.

The alarm stops and sounds again in 10 minutes.



**Note:** If you let the alarm sound for one minute without pressing a key, it stops for ten minutes, and then sounds again.

#### PHONE OFF

If the alarm time is reached while the phone is switched off, the phone switches itself on and starts sounding the alarm tone. If you press **Stop**, the phone asks whether 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.

## Turn off the alarm clock

- 1 Press **Menu 4 2 1** (**Settings > Time settings > Alarm clock**).
- 2 Scroll to **Off** and press **Select**.

## • SHARE BUSINESS CARDS

Your phone can send or receive an electronic business card as a short text message. The business card can have either:

- a name and number, or
- a name, multiple numbers (home, work, fax, mobile), an e-mail address, web address and street address if you have entered this information in the phone book.

If you are exchanging business cards with multiple numbers and addresses, both the receiving and sending phone must have a phone book that supports these kinds of entries.

## Send a business card as a short text message


- 1 Recall the name from your phone book.
- 2 Press **Details**, if shown, or skip to Step 3.
- 3 Press **Options**.
- 4 Scroll to **Send bus. card** and press **Select**.
- 5 Scroll to **Via text msg.** and press **Select**.
- 6 If the name in the phone book has multiple numbers, you have the following choices:
  - Choose **Primary number** if you want to send a name and number only,  
OR
  - Choose **All details** if you want to send a name, multiple numbers, e-mail, web and street address.
- 7 Enter the number for the receiving phone, then press **OK**.

## Receive a business card

Your phone can accept and receive an electronic business card from a compatible phone if it is one of the following types:

- Nokia Smart Messaging compact business card
- V-card format



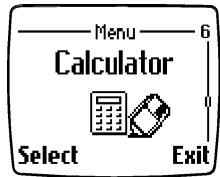
**Note:** If you press  at any time before saving the business card, the business card will be deleted!

- 1 When your phone displays **Business card received**, press **Show**.
- 2 After viewing the business card, press **Options**.
- 3 Scroll to **Save** to keep the information in the phone book, OR  
Scroll to **Discard** to delete the business card, then press **Select**.

## • USE THE CALCULATOR

Your phone's calculator adds, subtracts, multiplies, divides, and computes square and square root functions.












You can also use the calculator to convert currency.

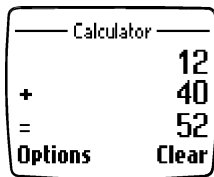


**Note:** Your phone must be switched on to use this function. Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

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

## Add, subtract, multiply and divide

- 1 Press **Menu 6 (Calculator)**.
- 2 Enter the first number in the calculation.
  - Press  to enter a decimal point and press **Clear** to erase any mistakes.
  - To add, press  once (+ appears)
  - To subtract, press   (- appears)
  - To multiply, press    (\* appears)
  - To divide, press     (/ appears)
- 3 Enter the second number, repeating steps as needed.
- 4 Press **Options**. **Equals** is selected.
- 5 Press **Select**.



## Use the square and square root functions

You can use the calculator for finding the square of a number or the square root of a number.

- 1 Press **Menu 6 (Calculator)**.
- 2 Enter the number.
- 3 Press **Options**, scroll to **Square** or **Square root**, then press **Select**.

## Convert currency

### SET THE EXCHANGE RATE

- 1 Press **Menu 6 (Calculator)**, then press **Options**.
- 2 Scroll to **Exchange rate**, then press **Select**.
- 3 Scroll to **Home units converted to foreign units** or **Foreign units converted to home units**.
- 4 Press **Select**.

- 5 Enter the exchange rate (press  to enter a decimal point).
- 6 Press **OK**.



**Note:** The exchange rate remains in the phone's memory until you replace it.

#### **CONVERT A CURRENCY AMOUNT**

- 1 Enter the amount to be converted.
- 2 Press **Options**.
- 3 Scroll to **To home** to convert to domestic units or **To foreign** to convert to foreign units.
- 4 Press **Select**.



# 17 Fun and games

## • GAME RULES

Challenge yourself or a friend to one of the three fun games in your phone.



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

## Start a new game

- 1 Press **Menu 8 (Games)**, scroll to **Select game**, then press **Select**.
- 2 Scroll to the desired game, and press **Select**.

## Adjust game settings

- 1 To adjust sound, lights or vibra, press **Menu 8 (Games)**, scroll to **Settings**, then press **Select**.
- 2 Scroll to the desired setting and press **Select**.

## Use the Xpress-on™ Gaming Cover

The Xpress-on™ gaming cover features a modified keypad design with enhanced game controls. The gaming cover also works for normal phone functions.

- 1 Press **Menu 8 (Games)**, scroll to **Settings**, then press **Select**.
- 2 Scroll to **Game controls**, then press **Select**.
- 3 Scroll to **Games cover**, then press **Select**.

## Space Impact II

Use your weapons to survive alien attacks. When you defeat all the enemies, you progress to the next level. Use 8 and 0 to move up and down, \* and # to move left and right. Key 1 or 3 fires the main weapons, and key 4 or 6 fires bonus weapons.

### USE THE GAMING COVER

If you use the Xpress-on gaming cover to play Space Impact II, use 2 and 5 to move up and down, 1 and 3 to move left and right. Key 6 fires the main weapons, and key 9 fires bonus weapons.

## Bumper

Bumper is like the arcade game pinball. The object of the game is to get a high score by keeping your ball on the table for as long as you can by using the flippers. Press 5 to launch the ball. Hold down the 5 key to get more power. Use keys 1 and 3 to control the flippers. Use the keys 4 and 6 to nudge the table - but not too much or the game will tilt.

## Nokia Sugar Bowl

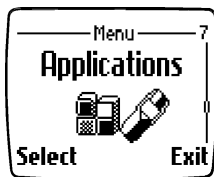
In this American football game, you play the role of the head coach. You select the plays for your team and watch the action unfold.

- Use keys 2, 4, 6 and 8 to navigate through the option screens.
- Press the 5 key to make a selection.

The ball carrier is highlighted with a square. Aim to reach the ten yard mark within four plays. Watch out for fouls and snapshots of the action. The scoreboard shows score, down and distance, quarter and time remaining. Your score is shown first. Play the closing stages of the match and try to win. At the end of the match your team's abilities will be stored.

## • CUSTOMIZE YOUR PHONE WITH JAVA™ APPLICATIONS

Your Nokia 3590 phone has an **Applications** menu for downloading and storing Java™ applications or midlets. The phone software may include midlets specially designed for this phone.



Examples of downloadable Java applications include interactive games, animations, sports training calendars, and map applications.

### Launch an application

- 1 Press **Menu 7 (Applications)**.
- 2 Scroll to **Select app.**, then press **Select**.

If you have more than one application, scroll to the one you want to launch, then press **Options**. Scroll to **Open**, then press **Select**.



**Tip:** If an application uses the whole display area, no softkey names are displayed. Press one of the selection keys to show the options list. Then select one of the options or press **Back** to continue with the application.

### Check available memory

Before you download new applications to your Nokia 3590 phone, be sure to check the available memory.

- 1 Press **Menu 7 (Applications)**.
- 2 Scroll to **Memory**, then press **Select**.

The phone displays the available memory.

### Download an application

You can download new Java applications from the mobile Internet. Use the WAP browser to find an appropriate application.



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

- 1 Press **Menu 7 (Applications)**.
- 2 Scroll to **Open browser**, then press **Select**.

See “Sign on to the mobile Internet” on page 118 for more information about the WAP browser.

## Choose other application options

When viewing the list of applications, press **Options** to access the choices listed in the following table:

Choice	What it does
<b>Open</b>	Allows you to launch an application.
<b>Erase</b>	Allows you to delete the application or application set from the phone.
<b>Web access</b>	An application may require web access to make updates. You can restrict the application from accessing the mobile Internet. Your choices include <b>Ask first</b> , <b>Allowed</b> and <b>Not allowed</b> .
<b>Check version</b>	Allows you to check if a new version of the application is available for download from mobile Internet services.
<b>Web page</b>	Allows you to check on additional information for the application from Internet Mobile Services. <b>Web page</b> is shown only if an Internet address has been provided with the application.
<b>Details</b>	Allows you to view information about the application, for example, the name, version number, vendor, a brief description, or memory size.

# 18 Reference information

## • BATTERIES, CHARGERS, AND ACCESSORIES

This section provides information about the phone's batteries, accessories, and chargers. Be aware that the information in this section is subject to change as the batteries, chargers, and accessories change.

Check the model number of any charger before use with this device.



**Warning:** Use only batteries, chargers and accessories approved by the phone manufacturer for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous. For availability of approved accessories, please check with your dealer.



**Note:** For information on how to charge and recharge your battery, refer to "Charge the battery" on page 11.

## Charging and Discharging

Your phone is powered by a rechargeable battery.

Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles!

The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and 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.

When the battery is running out of power and your phone only has a few minutes of talk time remaining, a warning tone sounds and the **Battery low** message appears briefly. When no more talk time is left, a warning tone is sounded and the phone switches itself off.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip, and pen) causes a 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 either summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F).

A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. The performance of Li-Ion batteries is particularly limited in temperatures below 32°F (0°C).

The following list provides guidelines that you can follow:

- When the operating time (talk time and standby time) is noticeably shorter than normal, buy a new battery.
- Use the battery only for its intended purpose.
- Never use any charger or battery that is damaged and/or worn out.
- Dispose of batteries according to local regulations (for example, recycling). Do not dispose of as household waste.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

## • IMPORTANT SAFETY INFORMATION

This section provides additional safety information. A brief overview of safety can be found in “For your safety” on page 1.

## 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.

Parts of the phone are magnetic. Metallic materials may be attracted to the phone, and persons with a hearing aid should not hold the phone to the ear with the hearing aid. Always secure the phone in its holder, because metallic materials may be attracted by the earpiece. Do not place credit cards or other magnetic storage media near the phone, because information stored on them may be erased.

## Electronic devices

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

### **PACEMAKERS**

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

- Should always keep the phone more than 20 cm (6 inches) from their pacemaker when the phone is switched on

- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

### HEARING AIDS

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

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

## Vehicles

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

Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

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. 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 1.03 W/kg, and when worn on the body, as described in this user guide, is 0.38 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 **<http://www.fcc.gov/oet/fccid>** after searching on FCC ID GMLNPM-8.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines when used with the Nokia accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

\*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](http://www.nokia.com)**.

## • 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 accessories 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 and may damage electronic circuit boards.
- Do not attempt to open the phone, except as explained in this guide. 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 accessory. 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.

## • ACCESSORIES

If you want to enhance your phone's functionality, a range of accessories is available for you. You can select any of these items to help accommodate your specific communication needs. For availability of these and other accessories, contact your dealer.



### A FEW PRACTICAL RULES FOR ACCESSORY OPERATION

- Keep all accessories out of reach of small children.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that any vehicle-installed accessories are mounted and are operating properly.
- Installation of any complex car accessories *must* be made by qualified personnel only.

Use only batteries, chargers, and accessories that have been approved by the phone manufacturer. The use of any other types could invalidate any approval or warranty applying to the phone, and could be dangerous. Refer to "Batteries, chargers, and accessories" on page 138 for important battery usage information.

## • BATTERY INFORMATION

This section provides information about the phone's battery. Be aware that the information in this section is subject to change.



**Note:** The phone uses a lithium ion (Li-Ion) battery. Dispose of used batteries in accordance with any local regulations. Do not dispose of as household waste.

The tables shown in this section provide information about the batteries that are available for your phone, charging times with the Rapid Travel Charger (ACP-8U), the Standard Travel Charger (ACP-7U), talk times, and standby times. Consult your service provider for more information.

## Charging Times

The charging times listed below are approximate.

Battery option	ACP-7U Charger	ACP-8U Charger	ACP-12 Charger
BLC-1 Li-ion Battery 825 mAh	5 hours	2.5 hours	2 hours
BLC-2 Li-ion Battery 950 mAh	4 hours	2.5 hours	2 hours

## 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). The operation time of the battery depends on conditions such as:

- Transmitting power level
- Signal (distance between the phone and the base station)
- Network parameters defined by the operator
- Phone use (WAP, games, SMS, Xpress-on active covers)
- Charging procedure used

18

Battery option	Talk time	Standby time
BLC-1 Li-ion Battery 825 mAh	2.5 to 6.5 hours	5 - 12.5 days
BLC-2 Li-ion Battery 950 mAh	minimum 3 hours	5 - 12.5 days

## • CHARGERS AND OTHER ACCESSORIES

This section provides information about the phone's chargers and accessories. Be aware that the information in this section is subject to change as the chargers and accessories change.

The chargers and accessories that are described in this section are available for your phone. Contact your dealer for details.



**Note:** When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since prolonged maintenance charging of the battery could shorten its life span. If left unused, a fully charged battery will discharge itself over time.

For information about Accessibility solutions, including accessories, see page 5.

### Standard Travel Charger (ACP-7)

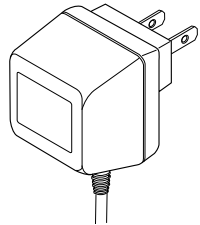
The Standard Travel Charger is a lightweight (187 g) and durable AC charger.

To use the Standard Travel Charger, plug it into a standard 120 V AC wall outlet and connect the lead from the charger to the base of your phone.

This charger can also be used with the optional Desktop Stand.



**Note:** If the battery is completely empty, you cannot use the phone until it has enough charge to operate.



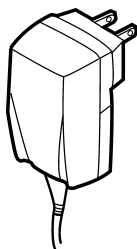


## Rapid Travel Charger (ACP-8)

The Rapid Travel Charger is a lightweight (100 g) and durable AC charger. Calls can be made during charging, even with a fully discharged battery.

To use the Rapid Travel Charger (ACP-8), plug it into a standard 120 V or 220 V AC wall outlet, and connect the lead from the charger to the base of your phone.

The charger can also be used together with the optional Desktop Charging Stand. Approximate charging times for discharged batteries are shown in “Charging Times” on page 148.

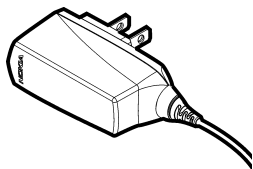


## Travel Charger (ACP-12)

The Travel Charger is a small, lightweight, high power AC-switcher charger, with cable management.

To use the Travel Charger, plug it into a standard 120 V wall outlet and connect the lead from the charger to the base of your phone. (Voltages for other countries are also available.)

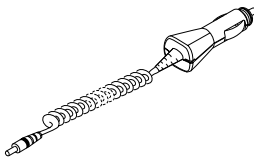
This charger can also be used with the optional Desktop Stand.



## Mobile Charger (LCH-9)

You can charge your phone's battery from your vehicle battery by using the Mobile Charger (LCH-9).

Calls are possible during charging. A green light indicates that the charger is ready for charging. The battery charging times are the same as those for the Rapid Travel Charger (ACP-8).

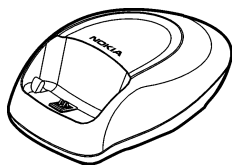


The input voltage range is from 11 V to 24 V DC, negative grounding. Avoid prolonged charging with the Mobile Charger (LCH-9) when the car engine is not running; this could cause your car battery to drain. Note also, that in some cars, the cigarette lighter plug is not provided with electricity if the ignition is not switched on.

## Compact Desktop Charging Stand (DCV-10)

Used together with the Standard Travel Charger (ACP-7) or the Rapid Travel Charger (ACP-8), the Compact Desktop Charging Stand is an stylish choice when you need your phone close at hand, always ready for calls.

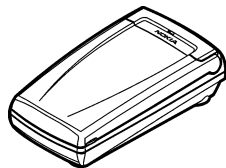
This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.



## Battery Charging Stand (DDC-1)

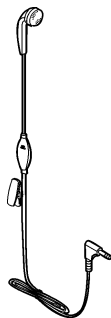
This Battery Charging Stand provides the possibility to charge a spare battery and thus have a full power source available whenever needed.

- Compatible with BLC-1 and BLC-2.
- Can be used with the Standard Charger (ACP-7) and the Travel Charger (ACP-8).



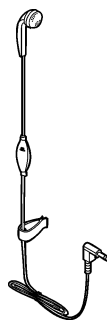
## Headset Kit (HDC-5)

Small and lightweight, the headset kit allows easy and convenient handsfree operation. The headset has a foam earpiece cover for a comfortable fit and has a clip to hold it firmly in place. This headset's 4-wire 2.5 mm jack fits directly into the bottom of the phone, see "Set up your headset" on page 13 for more details. A remote control button located in the microphone makes the headset convenient to use while answering or receiving calls. You can use the headset with your phone's voice tag feature, see "Make a call using voice recognition" on page 67 for more information.



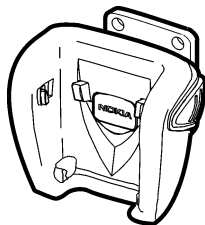
## Headset Kit (HDE-2)

Small and lightweight, the headset kit allows easy and convenient handsfree operation. This headset comes with a clip for a comfortable fit. This headset's 4-wire 2.5 mm jack fits directly into the bottom of your phone, see "Set up your headset" on page 13 for more details.



## Mobile Holder (MBC-6)

Small and easy to use, the Mobile Holder provides an ideal place to hold the phone in a vehicle. The Mobile Holder is easy to attach to the dashboard via a mounting plate (MKU-1) or swivel mount (HHS-9). The Mobile Holder is compatible with the Mobile Charger (LCH-9) and the Express Car Kit (PPH-1).



## Boom Headset (HDB-5)

Small and lightweight, the Boom Headset fits over the ear. This headset has excellent audio quality with the microphone and speaker integrated into the unit. The Boom Headset provides basic handsfree functionality with an answer/end button.

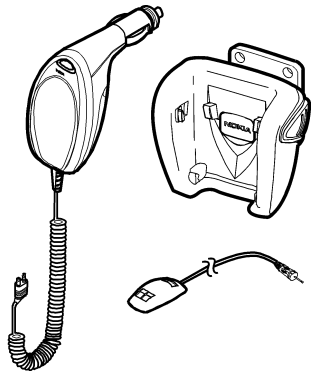
See “Set up your headset” on page 13 for more details.



## Express Car Kit (CARK 125)

This car kit provides charging and handsfree functionality. With excellent audio quality, the car kit is easy to use and is compatible with 12 V systems.

The Express Car Kit Includes a holder, plug-in handsfree, external microphone

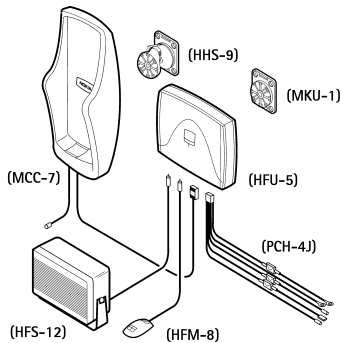


## Full Car Kit (CARK 134)

The Full Car Kit (CAR 134) offers a convenient handsfree option, automatic charging facility, transmission capacity with external antenna connection and car radio mute.

The Full Car Kit contains the following:

- HHS-9 Swivel Mount
- HFU-5 Junction Box
- MKU-1 Mounting Plate
- HFM-8 Handsfree Microphone
- HFS-12 External Handsfree Speaker
- PCH-4J Power Cable



**Important:** Installation should be done by qualified personnel only to secure safe and efficient equipment and wiring. Please note that the terms of the warranty require that the car kit be installed by an experienced installation facility. An end user should never attempt to install the car kit without professional assistance as the installation requires special tools and knowledge. Electronic fuel injection systems, electronic cruise control systems, and other electronic systems can malfunction due to the lack of protection from radio signals. Please check with your local retail store or your service provider for professional installation facilities in your area.

There is no optional privacy handset for the Full Car Kit.

Antenna considerations: Please contact your local dealer for the type of external antenna that will best support the system and terrain in your area.

# 19 Technical information

Weight	79.8 g
	107.3 g with BLC-2 battery
	112.2 g with BLC-1 battery
Size	Length 119 mm (4.68 in.)
	Width 50 mm (1.97 in.)
	Depth 23 mm (0.90 in.)
Transmitting power	GSM 850 2 W
	GSM 1900 1 W
Operating voltage	3.6 V DC nominal
	3.6 V DC for car kit
Networks	GSM 850 MHz/1900 MHz
Frequency band	<b>GSM 850</b>
	824.2 to 848.8 MHz (TX)
	869.2 to 893.8 MHz (RX)
	<b>GSM 1900</b>
	1850.2 to 1909.8 MHz (TX)
	1930.2 to 1989.8 MHz (RX)
Memory locations	Up to 500 memory locations in phone. Each location holds up to 5 numbers and 3 text fields (dynamic memory); Check with your SIM card provider or carrier for information about SIM card memory capacity.

## 20 Troubleshooting

This section provides a table that lists some of the most commonly encountered problems and provides possible causes and solutions.

Problem	Possible cause	Possible solution
My phone isn't charging.	The charger and the phone are not properly connected.	Securely connect the charger to the phone.
	The charger is not properly plugged in.	Make sure that the charger is plugged in correctly.
My phone isn't making/answering calls.	The battery is not charged.	Charge the battery.
	The signal strength is poor.	If you are indoors, move toward a window.
I can't listen to my voice messages.	You don't have voice mail service.	Call your wireless service provider.
	You have not set up your voice mailbox with your service provider.	Call your wireless service provider.
	You have not saved your voice mail number in your phone.	Refer to "Use voice features" on page 64.
	The voice mail number you have saved is incorrect.	Call your wireless service provider.
	You have forgotten your password or are entering it incorrectly.	Call your wireless service provider.

## 21 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 accessory 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., Ste. 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 (1-800-246-6542)
- 17 The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

Nokia is a registered trademark of Nokia Corporation.



# Appendix A

## Message from the CTIA

### (Cellular Telecommunications & Internet Association) to all users of mobile phones.

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*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](http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85)

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**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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# Index

## Numerics

- 1-touch dialing
  - assigning a number *56*
  - change a 1-touch number *57*
  - erase a 1-touch number *57*

## A

- ABC mode *33*
- accessibility solutions *5*
- accessibility website *5*
- accessible features *7*
- accessories *147*
- accessory
  - battery charging stand *151*
  - car kit *153*
  - charging stand *151*
  - headset kit *152*
  - loopset *6*
  - mobile charger *150*
  - mobile holder *152*
  - rapid travel charger *150*
  - standard travel charger *149*
  - TTY adapter *6*
- active call options
  - activate/cancel call waiting *61*
  - answer a waiting call *61*
  - end the active call *62*
  - reject a waiting call *61*
  - switch between calls *62*

- third call waiting *62*
- adapter
  - for TTY connection *6*
- advertisements
  - block reception *114*
  - receive multimedia message *113*
- alarm clock *129*
  - delay alarm *129*
  - snooze *129*
  - symbol *19*
- allow multimedia reception *113*
- answer a call *22*
- answer call with any key *57*
- answer waiting call *61*
- antenna
  - contact *17*
  - how to hold the phone *17*
  - location *17*
  - performance *17*
- anykey answer *57*
- applications
  - launch, open *136*
- audiocassette *5*
- authority certificates *122*
- automatic keyguard
  - delay time *87*

## B

- battery



- charge *11*
- check strength *18*
- empty *12*
- indication on screen *18*
- install *14*
- power *18*
- recycle *139*
- remove *12*
  - temperature range *139*
- battery low indication *139*
- block incoming messages *113*
- block international calls *92*
- block multimedia messages *113*
- bookmark
  - set while browsing *121*
- bookmarks *121*
- Braille *5*
- browser
  - use bookmarks *121*
- browser options *119*
- business cards *130*
  - send as text message *130*
  - sending *130*

## C

- cache memory *122*
- calculator *131*
- calendar *126*
  - make a note *126, 128*
- call forwarding *59*
- call log *48*
- call on hold
  - symbol *19*
- call restrictions
  - cancel *92*
- call timers *50*
- call waiting *29, 61*
- caller group
  - icon *20*
- caller groups
  - add names *81*
  - assign ringing tone *82*
  - graphics *82*
  - remove names *82*
  - rename *82*
- caller ID *22, 29*
- car kit
  - icon *20*
- car profile *73*
- chat *104*
  - change nickname *106*
  - view history *105*
- check volume *18*
- clock
  - 12 hour *79*
  - 24 hour *79*
  - alarm *129*
  - display the clock *80*
  - set the clock *79*
- closed user groups *93*
- code
  - default security code *90*
  - personal unblocking key *90*
  - PIN *88*

- restriction password 88
- security code 88
- conference calls 62
- convert currency 132
- covers, changing 84

## D

- data call history 52
- default security code 90
- Desktop Charging Stand 151
- dictionary
  - add word 38
- disconnect from mobile Internet 121
- display language 78
- downloading ringing tones 77

## E

- e-mail
  - send 102, 103
  - set up sending profile 102
- e-mail address
  - save 41
- emergency call
  - make while using GPRS 125
- end a call 22
- END key 22
- enter characters 34
- enter letters
  - ABC mode 33
- entering letters and numbers
  - special characters 35

- standard text input 33
- erase
  - phone book entries 47
- erase message 115

## F

- factory settings
  - default settings 83
- file size 115
- file type 115
- fixed dialing 91

## G

- games 134
  - Bumper 135
  - Nokia Sugar Bowl 135
  - Space impact II 135
  - use cover 134
- gaming cover 134
- GPRS 117
  - call history 48
  - check data call history 48
  - make a call while online 125
  - phone symbols 123
  - receive a call while online 124
- graphics
  - associate with caller group 82

## H

- headset
  - connect 13

- icon *20*
- make and answer calls *13*
- set up *13*
- use *13*

- Headset Kit *152*
- help text *79*

## I

- icons *18*
- idle screen *17*
- in-call options
  - access the phone book *55*
  - conference calls *62*
  - make a new call *55*
  - put a call on hold *55*
- information message service *116*
- install SIM card *9*
- international call *55*
- international calls
  - prefix *35*
  - restrict access *92*
- Internet
  - connect with your phone *118*

## J

- Java midlets *136*

## K

- keyguard *87*
  - automatic *87*
  - delay time *87*

- symbol *19*

- keypad
  - avoid accidental keypresses *87*
  - lock *87*
- keys and features
  - bottom *16*
  - display *15*
  - earpiece *15*
  - end key *15*
  - front *15*
  - microphone *15*
  - number keys *15*
  - scroll keys *15*
  - selection keys *15*
  - talk key *15*

## L

- label *7*
- language *78*
  - English *78*
  - French *78*
  - phone support *78*
  - Spanish *78*
- Large print *5*
- lights
  - car profile *73*
  - keypad and display *15*
- line for outgoing calls *29*
- lock codes
  - PIN codes *89*
  - PUK codes *90*
- loopset *6*

- profile 73
  - set as default 73
- LPS-3 6

## M

- make a call 21
  - use the phone book 21
- make an emergency call while on-line 125
- make an international call 55
- memory
  - available for multimedia messages 112
  - available for names in phone book 44
  - chose memory type for phone book entry 45
  - default memory for phone book 45
  - phone 44
- menus
  - list of items 26
- message settings
  - message center number 94
  - message mode 95
- messages
  - check text messages 99
  - check voice mail 65
- MIDI 76, 76
- MIDI tones 76
- midlets 136
  - launch application 136

- MMS 112
  - allow advertisements 113
  - block advertisements 114
  - connection settings 114
  - delete message 115
  - discard a message 114
  - maximum size 112
  - multimedia inbox 26, 112
  - play sound clip 115
  - ringing tone 112
  - save message 115
  - save MIDI tone 115
  - save received graphic 115
  - save ringing tone 115
  - screen saver 112
  - sender information 115
  - settings 112
  - turn off 113
  - view a message 114
- Mobile Charger 150
- mobile Internet
  - clear the cache 122
  - security issues 122
  - sign off 121
  - sign on 118
- mobile Internet site
  - examples 120
  - how to read 120
- multimedia inbox 26, 112
- multimedia messages 112

## N

- network services 29
  - call forwarding 29, 59
  - call waiting 61
  - caller ID 58
  - chose outgoing line 58
  - conference call 62
  - system selection 60
  - transfer a call 63
- Nokia Customer Care
  - phone information 7
  - request alternate format 5
  - TTY number 5

## O

- online help 79
- onscreen help 79

## P

- phone
  - check signal 18
  - frequency bands 155
  - operating voltage 155
  - transmitting power 155
  - turn on 16
- phone book
  - add entry 33
  - erase names and numbers 46
  - features 32
  - find names 43
  - make a call 21
  - menu 32
  - options 32
  - phone label 7
  - phone size 155
  - phone symbols 18
  - phone weight 155
  - picture messages
    - sending with text 110
    - viewing 111
  - PIN code 89
  - play MIDI tone 115
  - polyphonic sound 76
  - power button
    - location 16
  - power key 15
  - predictive text input 36
    - add word 38
    - language support 36
    - shortcuts 38
    - turn off 37
    - turn on 36
    - use keys 38
  - profile
    - handsfree 72
    - timed 71
  - profiles
    - car kit 73
    - customizing 69
    - for accessories 72
    - loopset 73
    - TTY 74
  - PUK code 90

punctuation  
    how to enter *34*

## R

Rapid Travel Charger *150*  
receive multimedia messages *112*  
reception *18*  
redial a call *23*  
reject a call *22*  
remove battery *12*  
remove SIM card *14*  
restore factory settings *83*  
restrict calls *92*  
ringing tones  
    download *77*  
    receive from network *77*  
ringing tons  
    polyphonic sound *76*

## S

scroll bar *24*  
scroll keys *24*  
security code *88*  
    default *90*  
security features  
    automatic keyguard *87*  
    keyguard *87*  
    personal unblocking key *90*  
    PIN code *89*  
    prevent unauthorized use *89*  
    PUK code *90*  
    require password *89*

    restrict calls *92*  
selection keys *24*  
service command editor *116*  
settings  
    MMS connection sets *114*  
    MMS, multimedia *112*  
signal strength indicator *18*  
SIM *44*  
SIM card *9*  
    avoid damage *9*  
    handling *9*  
    install *9*  
    remove *14*  
SIM card feature  
    fixed dialing *91*  
SIM memory  
    icon *20*  
speed-dial *56*  
Standard Travel Charger *149*  
start screen *17*  
swap between two calls *61*  
system selection *29*

## T

T9 *36*  
talk key *21*  
technical information *155*  
text conventions *3*  
text message  
    copy to calendar *101*  
text messages  
    chat *104*

- reading 99
- resending 99
- send to single recipient 96
- sending 98
- set up 94
- use GPRS 97

time

- receive network update 81

time format 79

touch tones

- send pause 36

track

- online usage 52

- wireless Internet usage 52

troubleshooting 156

TTY 5

- connection between phone and

  - TTY Device 74

- end a call 75

- make a call 75

- receive a call 75

TTY adapter 6

TTY communication 6

TTY connection

- icon 20

TTY settings 74

## U

update date and time 81

use two phone lines 61

user guide

- alternate formats 5

audiocassette 5

Braille 5

disk copy 5

e-text 5

Large print 5

updates 4

user guide conventions 3

## V

voice dialing

- add a voice tag 66

- change a voice tag 68

- erase a voice tag 68

- make a call with voice recognition 67

- play back a voice tag 67

voice mail

- listen to your messages 64

- save the mailbox number 64

volume 18

- adjust 18

- check level on screen 18

- decrease 22

- earpiece 18

- increase 22

- keypad tones 69

## W

WAP 117

WAP browser 119

- use phone keys 120

WAP page

- active link *120*
- enter information *121*
- examples *120*
- header line *120*
- welcome note *78*
- wireless network services *4*
- write messages
  - with built-in dictionary *36*
- [www.nokiaaccessibility.com](http://www.nokiaaccessibility.com) *5*

## X

- Xpress-on color cover *84*



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