

NOKIA 6590i



User Guide



NOKIA
CONNECTING PEOPLE

Nokia 6590

User Guide

Phone notes

My Nokia 6590 phone information		Information source
My number		Wireless provider
Phone serial number (ESN)		On back of your phone, beneath the battery
International Mobile Equipment Identifier (IMEI)		
Voicemail number		Wireless provider
Wireless provider customer care		Wireless provider
Message center number		Wireless provider
Default recipient number (e-mail gateway number)		Wireless provider

The wireless phone described in this guide is approved for use in the 850 and 1900 GSM networks. See "Find your phone's label" on page 8 for more information.

LEGAL INFORMATION

Part No. 9355451, Issue No. 1

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Printed in Canada 09/2002

US Patent No 5818437 and other pending patents.

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

The information contained in this user guide was written for Nokia 6590 phone. Nokia operates a policy of ongoing development. Nokia reserves the right to make changes and improvements to any of the products described in this document without prior notice.

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Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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1 Safety first

Safety first

1

Read these simple guidelines before you use your phone. Breaking the rules may be dangerous or illegal. Further detailed information is given in "Reference information" on page 160.



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

Do not 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.



OBSERVE INFRARED PRECAUTIONS

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



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 phone is not water-resistant. Keep it dry.



BACKUP COPIES

Remember to make backup copies of all important data.



CONNECTING TO OTHER DEVICES

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



CALLING

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



EMERGENCY CALLS

Ensure the phone is switched on and in service. Press  as many times as needed (for example, to exit a call, to exit a menu) to clear the screen. 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 6590i phone has many useful features for everyday use, such as an FM radio, calendar, to-do list, text messaging, and alarm clock. And, the Nokia 6590i phone can be connected to a PC, or laptop. For more information, please refer to the PC Connectivity Guide.

The PC Connectivity Guide, Nokia PC Suite, and all related software can be downloaded from the Mobile Phones, United States section of www.nokia.com.

• 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.

Understand the terms

This guide uses certain terms for certain actions.

- **Press** means to briefly press and then release a key. For example, *press*  means "Press the zero key."
- **Press Menu** means to press the key that is below the word **Menu** on the phone's screen.
- **Press and hold** means to press and hold a key for 1 to 3 seconds (depending on the feature you're using), then release the key.
- You use the **selection keys** ( and ) to choose an option on a menu.
- **Highlighted** means that an option you see on the screen is enclosed in a dark bar. Choices you make with the two selection keys act on the highlighted option.

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
bold	The word or phrase appears on the phone's screen.
bold and blue	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

Icons appear throughout this guide to alert you of important information or to provide useful tips.



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



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



Important: Indicates critical information on using a feature.



Caution: Warns you when you may lose information.



Warning: Helps to avoid injury and 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 at the Nokia site on the World Wide Web:

<http://www.nokia.com>

Also, an interactive tutorial is available online at:

www.nokiahowto.com

• 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

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)



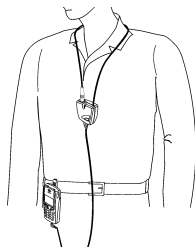
Note: Alternate format user guides are available in English.

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

LPS-3 Loopset

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

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 98.



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

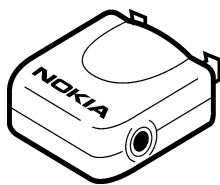
TTY/TDD Adapter (HDA-9)

The TTY/TDD Adapter is a Nokia accessory that allows you to connect your mobile phone to a TTY/TDD device to make a call in digital mode.

WHAT YOU'LL NEED

In addition to the Nokia 6590i phone, you'll need the following equipment for TTY communication.

- A TTY device that is "cellular ready" or "cellular compatible"
- A cable for connecting the TTY to your phone, usually supplied by the manufacturer of the TTY device
- The Nokia TTY adapter HDA-9, which can be purchased as an accessory



TTY Adapter (HDA-9)

Accessible features

The Nokia 6590i phone has many accessible features, including:

- Nibs above and below the  key for quick reference to the keypad
- Tactile feedback when you press a key
- Ability to send and receive short text messages
- Convenience of one-touch dialing
- Ability to define ring tones for different caller groups
- Voice dialing and voice commands for handsfree operation
- Ability to compose own ring tones with PC Suite Software

• UNDERSTAND WIRELESS NETWORK SERVICES

A number of features included in this guide are called Network Services. These are special services 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 6590i phone include:

- Voice mail and voice privacy
- Call waiting, call forwarding, and caller ID
- Text and picture messages
- Ability to send your own number
- News and information services
- Notifications on SIM update
- Cell info display
- Service command editor
- E-mail over SMS
- Selected Internet access services (GPRS)



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

Note differences among service providers

Wireless network providers differ from each other in certain ways. When you sign up for service, make sure your provider offers the services you need.

• REGISTER YOUR PHONE

Make sure to register your phone at 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*. You can receive tips and tricks on using your phone, accessory information, and special offers.

• GET HELP

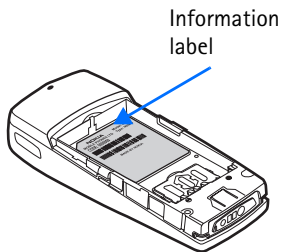
Find your phone's label

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. We also recommend that you write down the following information on the inside cover of this guide (see "Phone notes" inside the front cover) and have it available if you call.

The label is on the back of the phone (under the battery). It shows the following:

- Model number
6590 (approved for the 1900 GSM network) or 6590i (approved for the 850 and 1900 GSM networks)
- Phone type (a technical designation)
- International Mobile Equipment Identification (IMEI)

Do not remove or deface the label.



Contact Nokia

When you need help, Nokia Customer Care can provide information about Nokia products. Before calling, however, please read "Frequently asked questions (FAQ)" on page 180.

HAVE THE RIGHT INFORMATION AVAILABLE

Have the following information available before you contact Nokia Customer Care:

- The phone's model number
- Phone type (a technical designation)
- The IMEI (serial number)
- Your ZIP code

CONTACT YOUR SERVICE PROVIDER

Some service providers program a one-key customer support number into the phone. This number can be useful if you're having trouble dialing a number, especially when you're traveling outside your home area.

This one-key feature may not be available on all systems. Contact your service provider for availability.

When you need to get in touch with your wireless service provider:

Your phone will automatically dial the provider's customer support number if your provider offers this feature.

If your service provider determines that the problem is Nokia-related, their representative will direct you to the Nokia Customer Care Center (USA) or Nokia Customer Service (Canada).

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 TTY/TDD Users Only: 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

• UNDERSTAND YOUR PHONE

Keys and features

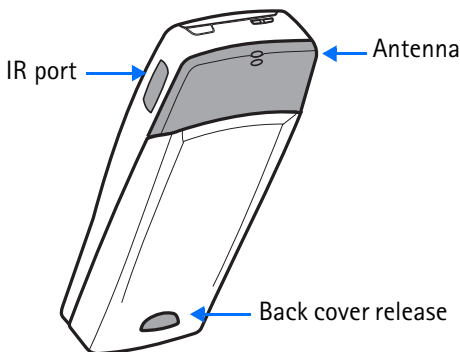
2



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

BACK

2



Tips on efficient operation



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.

When you avoid touching the antenna area during a call, you optimize the antenna performance and the talktime of your phone.

Normal position: Hold the phone as you would any other telephone.



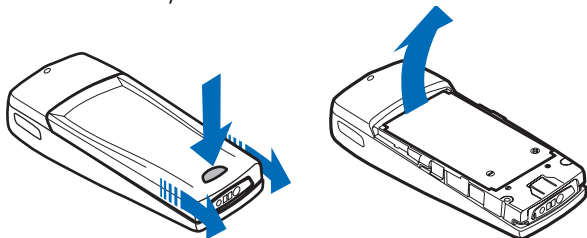
Install the SIM card



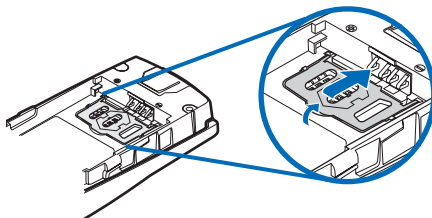
Important: Before you begin, you need to prepare your phone for use by installing the SIM card and charging the battery. Switch off the phone before installing the SIM card.

2

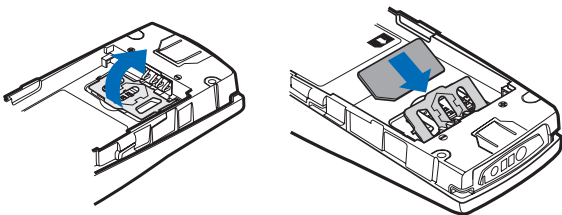
- 1 With the back of the phone facing you, press and hold the back cover release button.
- 2 Slide the cover off.
- 3 Lift out the battery.



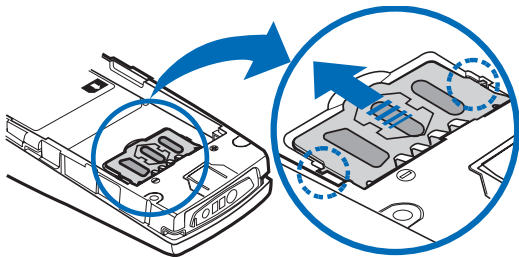
- 4 Grasp the front of the SIM card door.
- 5 Push the SIM card door *gently* towards the gold contacts.



- 6 Lift the SIM card door.
- 7 Install the SIM card; beveled corner on the left, gold contact area face down.



- 8 Lower SIM card door and gently slide to lock into place.



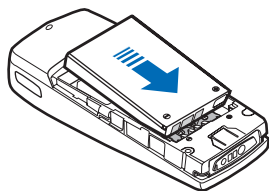
NOTES ABOUT SIM CARDS

- 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.
- You must remove the battery to access the SIM card. Always make sure that the phone is switched off before you remove the battery.

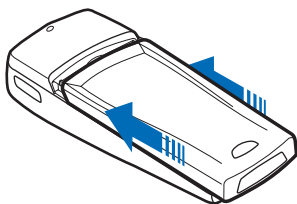
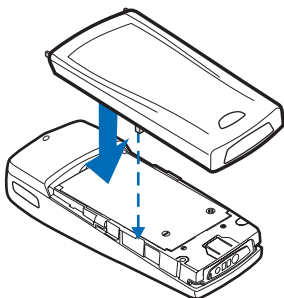
Install the battery

- 1 Place the battery in the compartment with the label side facing up and the gold contact area aligned with the contact prongs.
- 2 Lower the battery into place.

2

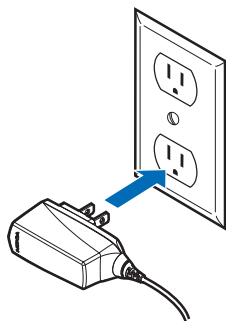


- 3 Replace the back cover.

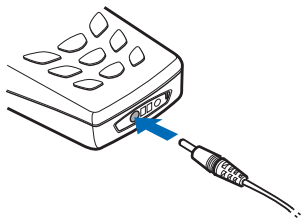


Charge the battery

- 1 Plug the charger into a standard wall outlet.



- 2 Connect the plug from the charger to the bottom of the phone.



The battery power indicator (or battery bar) appears on the screen and starts scrolling. If the phone is on, **Charging** appears also.



- 3 When the battery bar stops scrolling, the battery charge is complete. **Battery full** appears also, if the phone is on.
- 4 Unplug the phone and charger once charging is complete.

Remove the battery

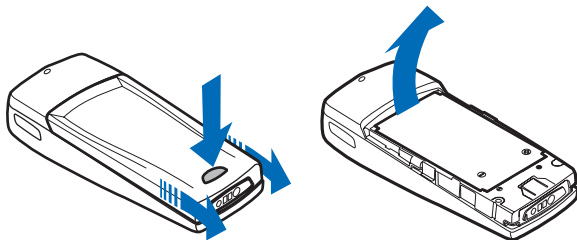


Important:

Switch off the phone before removing the battery.

- 1 With the back of the phone facing you, press and hold the back cover release button.

- 2 Lift out the battery.



2

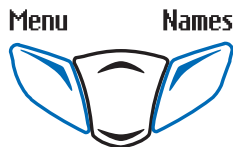
Important battery information

- Recharge your battery only with a charger approved by Nokia.
- You can switch the phone on and use it for calls while the battery is charging.
- If the battery is completely empty, it may take a few minutes before the battery indicator appears on the screen.
- 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. For more details, see "Battery information" on page 170.

Learn the keys

SELECTION KEYS

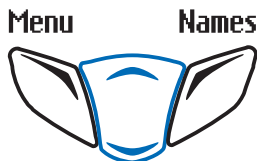
The left and right selection keys ( and ) are beneath each corner of the screen. Selection keys are used to enter, select, and exit menus, submenus, and lists, while the scroll key is used to navigate from within those items. A selection key's function is always defined by the text that appears above it in the screen.



For example, in this screen, the word **Menu** appears above the selection key. Press the left selection key () to enter the menu function. Press the right selection key () under **Names** to access Phone book functions.

SCROLL KEY

The scroll key is positioned between the selection keys. Press the up arrow () or the down arrow () to scroll through your phone's menus and Phone book.



Memory use

In your Nokia 6590i phone, Phone book entries, SMS and MMS messages, the Calendar notes, To-do list, WAP cache, WAP bookmarks, and WAP security cache and certificates features share memory space. When any of these features is used, there is less memory available for other features. This is especially true with heavy use of some features. If your use of one or more of these features takes all of the shared memory, your phone may display a message saying **Memory full**. To proceed, you would need to delete some of the information or entries from these features to make additional memory space available.

Quick guide

Welcome

2

Make a call	Enter phone number, press 
Answer a call	Press 
Answer a call with call waiting	Press  or Options and select Answer call
End a call	Press 
Ignore a call	Press Silence when your phone rings
Redial	Press  twice
Adjust call volume	Press up or down on the side volume key
Use the in-call menu	While in a call, press Options
Make a conference call	While in a call, press Options , scroll to New call , press Select , enter the number, press Call , when new call answers press Options , scroll to Conference , press Select
Save a name and number	Enter a number, press Options , select Save , enter a name, press OK
Recall a name/number	Press Names , select Find , press List or enter name, press Find
Recall a name/number during a call	Press Options , scroll to New call , press Select , press Find , enter the first letter of the name to find
Check voice mail	Press and hold  OR dial your voice mail box number
Send a text message	Press Menu 01-1 , write the message, press Options , scroll to Send , press Select , enter the recipient's number, press OK
Send an E-mail message	Press Menu 01-2 , enter the e-mail address, press OK , enter the subject, press OK , write the message, press Options , press Select , enter the e-mail server number, press OK .
Read new message	Press Show .
Reply to a text message	Press Options , select Reply , select Start reply with option, write reply, press Options , press Select , enter or recall the number, press OK
Send a business card	Recall a name from the Phone book. Press Details , then press Options , select Send bus. card , select Via text msg. Enter the recipient's number or press Find to retrieve a number from the Phone book. Press OK
Listen to radio	Connect headset, press Menu-5 , scroll to Auto or Manual tuning, press Select , use  or  to find a station, press OK
Activate browser	Press Menu 10 , press Select

Menu Shortcuts

Full list of shortcuts on page 28.

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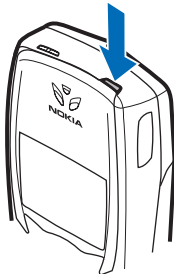
11 SIM SERVICES

* Check with your service provider for availability.

3 Basic operations

• SWITCH ON YOUR PHONE

3



Press and hold the power key for two seconds.

The phone may ask for a Personal Identity Number (PIN) or security code. See "About Access codes" on page 116.



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

Set the time and date

When you power-up your phone for the first time, or when you remove and replace the battery, you'll be prompted to set the time and date.

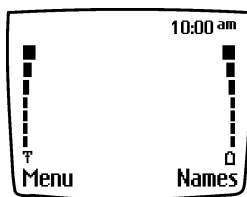


Note: The phone may ask for a Personal Identification (PIN) code or a security code. See "About Access codes" on page 116 for more information. Your service provider supplies the PIN code.

- 1 Enter the correct time and press **OK**.
- 2 Enter the correct date and press **OK**. After a brief pause the Start screen appears in your screen.

• 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.



What's on the Start screen

	Signal strength. A higher bar indicates a stronger signal to your phone.
	Battery charge level. A higher bar indicates more power in the battery.
Menu	Press the left selection key () under Menu to enter the menu list.
Names	Press the right selection key () under Names to enter the Phone book.
	Press the scroll key at the Start screen to display any entries in your Phone book.

• REVIEW PHONE SYMBOLS

These icons indicate status, alert you of a message or meeting, and more.

Icon	Indicates...	Icon	Indicates...
	You're in an active call		The Silent profile is active
	You're in a secure connection on-line		Keyguard is active
	You have a call waiting (when blinking)		Encryption is on
	You have new voice messages waiting		Encryption is off
	You have a text or picture message waiting		An alarm is set
	A picture is attached to your message		The highlighted entry (in Phone book) exists on the SIM card
	You're in sentence case text entry mode (predictive text off)		When blinking, IR is searching for a device
	You're in lowercase text entry mode (predictive text off)		When steady, IR is connected to a device
	You are in uppercase text entry mode (predictive text off)		Predictive text is on
	You're in number entry mode (predictive text off)		GPRS connection is active

• MAKE AND ANSWER CALLS

Use the table below as a quick guide for basic functions.

3

Switch the phone on	Press and hold the power key on top of the phone for 2 seconds.  Warning: Do <i>not</i> switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.
Make a call	1 Enter the area code and phone number. 2 Press . 3 Hold the phone with the earpiece over your ear and microphone near your mouth, or connect and use the headset before entering the number.
Answer a call	When your phone rings or vibrates, press  .
End a call	Press  .
Turn Keyguard on	Press Menu  . Keyguard prevents accidental calls. (See "Automatic Keyguard" on page 116.)
Turn Keyguard off	Press Unlock  . (See "Automatic Keyguard" on page 116.)
Silence a call OR Decline a call	You can mute the ringing tone of an incoming call without terminating the call. Press Silence and the ringing tone is muted. After pressing Silence , you then have the option to Decline the call.



Important: Do not touch the antenna 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.

Make an international call

See "Make an international call" on page 114.

Make a call with voice dialing

See "Use voice dialing" on page 66.

Make a 1-touch dial call

See "Use 1-touch dialing" on page 112.

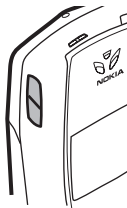
Make an emergency call

See "Emergency calls" on page 164.

ADJUST THE EARPIECE VOLUME DURING A CALL

- To increase the volume of a call, press the top volume key.
- To decrease the volume, press the bottom volume key.

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

**CALLER ID**

When Caller ID is active, this network service lets your phone 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 42). Contact your service provider for details.

REDIAL THE LAST-DIALED NUMBER

Press  twice.

DIAL ANY OF THE 20 LAST-DIALED NUMBERS

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

• USE THE MENU

Your phone offers many functions that are grouped in menus and submenus. Access these menus with the *scroll method*, or a *shortcut*.

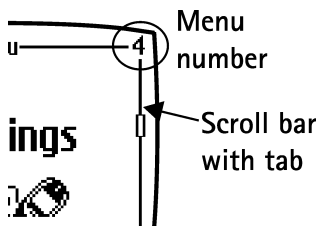
Use the scroll method

- At the Start screen, press **Menu**, then page (or scroll) through the menus using the scroll key (☰ or ☷).

THE MENU NUMBER AND SCROLL BAR

As you page through menus, the **menu number** is indicated in the upper right corner of the screen.

A **scroll bar** with a tab also appears on the right side of the screen. The tab moves up or down as you page through the menus.



- When the menu you want appears in the screen, press **Select**.
- Once inside the menu, use the scroll key (☰ or ☷) to highlight an item or page through submenus. Press ☲ to open a highlighted item or to enter a submenu. Press ☴ to exit or return to the previous menu.

Help text

Many menu items have brief help text. To view the help text, scroll to the menu item and wait for about 15 seconds. Press **More** to see the next page of the text or **Back** to exit.

You can choose to turn help text off so that it doesn't appear.

- Press **Menu-4-3-8** (Settings-Phone settings-Help text activation)
- Press **Select** and scroll to **Off**.
- Press **Select** to turn help text off.

Use a menu shortcut

You can also go to almost any feature, option, or submenu directly from the Start screen using a "shortcut."

Press **Menu**, and within 3 seconds, enter the first number of the menu function you'd like to access. Keep going until you've entered all the numbers.

For example: To set the **Alarm clock**, press **Menu 6-1-1**
(Menu - ⁶Organizer - ¹Alarm clock - ¹On).

A complete list of shortcuts begins on page 28.



Note: Some features may not appear depending on service availability, or may require subscription to the feature in question. In such cases, the phone displays an error message. If you wish to subscribe to a feature that is currently disabled, contact your wireless provider

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 SIM card configuration and service availability.

1 MESSAGES



- 1 Write message01-1
- 2 Write e-mail01-2
- 3 Chat01-3
- 4 Inbox01-4
- 5 Multimedia inbox01-5
- 6 Outbox01-6
- 7 Archive01-7
- 8 Templates01-8
- 9 My folders01-9
- 10 Erase messages01-10
 - 1 All messages01-10-1
 - 2 Inbox 01-10-2
 - 3 Outbox 01-10-3
 - 4 Archive 01-10-4
- 11 Voice messages01-12
 - 1 Listen to voice messages01-11-1
 - 2 Voice mailbox number01-11-2
- 12 Info messages01-12
 - 1 Info service 01-12-1
 - 2 Topics 01-12-2
 - 3 Language 01-12-3
 - 4 Info topics saved on SIM card 01-12-4
 - 5 Read 01-12-5
- 13 Service command editor ..01-13

- 14 Message settings01-11
 - 1 Text messages 01-14-1
 - 2 Multimedia msg..... 01-14-2

2 CALL LOG



- 1 Missed calls 2-1
- 2 Received calls 2-2
- 3 Dialed numbers 2-3
- 4 Clear call lists 2-4
 - 1 All 2-4-1
 - 2 Missed 2-4-2
 - 3 Received 2-4-3
 - 4 Dialed 2-4-4
- 5 Call timers 2-5
 - 1 Duration of last call ... 2-5-1
 - 2 Duration of dialed calls. 2-5-2
 - 3 Duration of received calls 2-5-3
 - 4 Duration of all calls. ... 2-5-4
 - 5 Clear timers 2-5-5
- 6 Call costs 2-6

(Check with your service provider for availability.)

 - 1 Last call units 2-6-1
 - 2 All calls units 2-6-2
 - 3 Call cost settings 2-6-3
- 7 GPRS data counter 2-7
 - 1 Data sent in last session 2-7-1

- 2 Data received in last session.....2-7-2
- 3 All sent data.....2-7-3
- 4 All received data.....2-7-4
- 5 Clear counters.....2-7-5
- 8 GPRS connection timer.....2-8
 - 1 Duration of last session.....2-8-1
 - 2 Duration of all sessions.....2-8-2
 - 3 Clear timers.....2-8-3

3 PROFILES



- 1 Normal.....3-1
 - 1 Select.....3-1-1
 - 2 Customize.....3-1-2
 - 3 Timed.....3-1-3
- 2 Silent.....3-2
- 3 Meeting.....3-3
- 4 Outdoor.....3-4
- 5 Pager.....3-5

4 SETTINGS



- 1 Time settings.....4-1
 - 1 Clock.....4-1-1
 - 2 Auto update of date and time.....4-1-2
- 2 Call settings.....4-2
 - 1 Call Forwarding.....4-2-1
 - 2 Anykey answer.....4-2-2
 - 3 Automatic redial.....4-2-3
 - 4 1-touch dialing.....4-2-4
 - 5 Call waiting.....4-2-5
 - 6 Summary after call.....4-2-6
 - 7 Send own caller ID when calling.....4-2-7
 - 8 Line for outgoing calls.....4-2-8
- 3 Phone settings.....4-3
 - 1 Language.....4-3-1
 - 2 Automatic keyguard.....4-3-2

- 3 Screen saver.....4-3-3
- 4 Cell info display.....4-3-4
- 5 Welcome note.....4-3-5
- 6 System selection.....4-3-6
- 7 Start-up tone.....4-3-7
- 8 Help text activation.....4-3-8
- 4 Tone settings.....4-4
 - 1 Ringing options.....4-4-1
 - 2 Ringing tone.....4-4-2
 - 3 Ringing volume.....4-4-3
 - 4 Vibrating alert.....4-4-4
 - 5 Message alert tone.....4-4-5
 - 6 Keypad tones.....4-4-6
 - 7 Warning tones.....4-4-7
 - 8 Alert for.....4-4-8
- 5 Accessory settings.....4-5
 - 1 Headset.....4-5-1
 - 2 Handsfree.....4-5-2
 - 3 Loopset.....4-5-3
 - 4 TTY/TDD.....4-5-4
- 6 GPRS modem settings.....4-6
 - 1 Active access point.....4-6-1
 - 2 Edit active access point.....4-6-2
- 7 Security settings.....4-7
 - 1 PIN code request.....4-7-1
 - 2 Call restrictions.....4-7-2
 - 3 Fixed dialing.....4-7-3
 - 4 Closed user group.....4-7-4
 - 5 Security level.....4-7-5
 - 6 Change access codes.....4-7-6
- 8 Restore factory settings.....4-8

5 RADIO



6 ORGANIZER



- 1 Alarm clock.....6-1
- 2 Calendar.....6-2
- 3 To-do list.....6-3

7 EXTRAS



- 1 Calculator7-1
- 2 Voice recorder.....7-2
- 3 Voice commands.....7-3
- 4 Countdown timer7-4
- 5 Stopwatch.....7-5

8 GAMES



- 1 Select game8-1
 - 1 Nokia Sugarbowl8-1-1
 - 2 Snake II 8-1-2
 - 3 Space impact 8-1-3
 - 4 Bumper 8-1-4
- 2 Settings.....8-2
 - 1 Game sounds.....8-2-1
 - 2 Game lights..... 8-2-2
 - 3 Shakes..... 8-2-3

9 INFRARED



10 SERVICES



The following menu items depend on network availability. Contact your service provider for more information about network features.

- 1 Home.....10-1
- 2 Bookmarks.....10-2
- 3 Service inbox.....10-3
- 4 Settings.....10-4
 - 1 Active service settings .10-4-1
- 5 Go to address10-5
- 6 Clear the cache.....10-6

11 SIM SERVICES



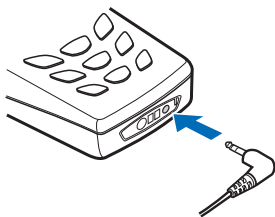
(Check with your service provider for availability.)

• SET UP YOUR PHONE

Your phone may come with a headset for convenient, handsfree use of the phone.

Connect the headset

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



3

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.



Note: 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.

Use the carrying case

Nokia carrying cases can be purchased separately as accessories. A carrying case can protect the phone against accidental key presses when you're not using it. Keep the phone in its case when you're not actively using it for calls.

Change Xpress-on™ color covers

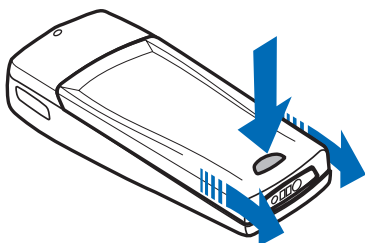
To personalize your Nokia 6590i phone, you can change the front and back covers. Nokia Xpress-on™ covers are available in several fashion colors. Extra covers may be purchased from your authorized Nokia dealer.



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

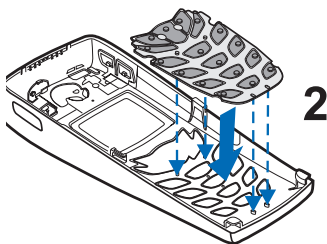
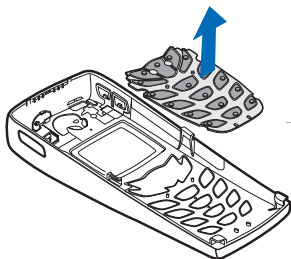
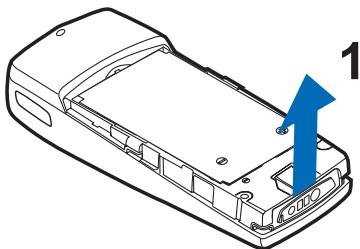
REMOVE THE BACK COVER

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



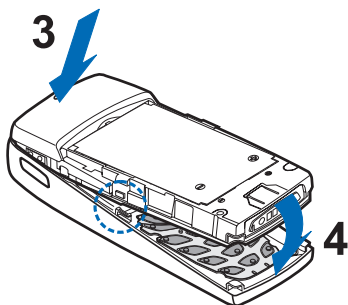
REMOVE THE FRONT COVER AND KEYPAD

- 1 With the back of the phone facing you, grasp the phone body and gently separate it from the front cover.
- 2 Lift the keypad from inside the old front cover and place it in the new cover.

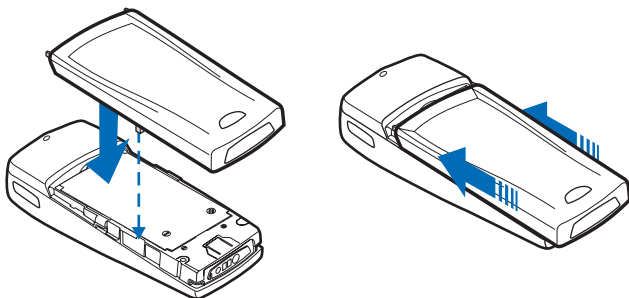


REPLACE THE NEW FRONT COVER

- 3 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.
- 4 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.



4 Text entry

4

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

- ABC mode, for making entries in the Phone book, entering calendar notes, and renaming caller groups
- Predictive text input, for writing text messages, adding notes to a picture message, and adding notes to the To-do list.

• ABC MODE

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

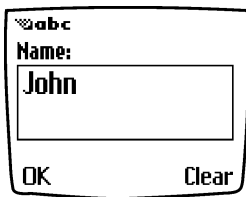
The ABC icon appears in the left corner as visual confirmation.

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 John:

Press		J
Press		O
Press		H
Press		N



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

Key	Characters	Key	Characters
1	. , - ? ! ' @ : 1	7	pqr7
2	abc2	8	tuv8
3	def3	9	wxyz9
4	ghi4	0	space, 0 
5	jkl5	*	Access special characters (See page 36 for details.)
6	mno6	#	Changes letter case

4



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 that character.
- Press **Clear** as needed to erase more than one character, or 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  and 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.

As with the ABC mode, if you make a mistake:

- Press Clear to erase that character
- To switch back to the ABC mode, press and hold  again

Use special characters

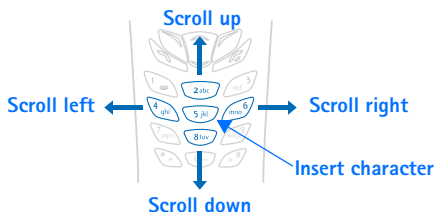
IN ABC MODE

While entering text, press and hold  to display the following special characters. Press  again to cycle through all available characters:

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

Use four-way scrolling

Navigate special characters using the 2, 4, 6, and 8 keys similar to a joystick. Once a character is highlighted press  to insert the character into your message.



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 box, when you add a new entry to the Phone book

You can use these characters to automate dialing your voice mail. See "Automate voice mail with dialing codes" on page 65.

Press to enter *

Press to enter +

Press to enter p

Press to enter w

Press to enter .

- * Use this character to send command strings to the network. Contact your service provider for details.
- + Use this character as a prefix for dialing international numbers.
- p 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.
- w This character creates a wait; digits to the right of the w are not sent until you press **Send**.

• 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.

For example, to write "Nokia" with the English dictionary selected, press:

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



The screen 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.



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

Select a language and turn on predictive text

- 1 Press **Menu**, then press **Select**.
Write message appears.
- 2 Press **Select**, then press **Options**.
- 3 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.



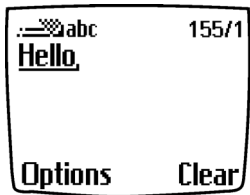
Tip: Your key presses must be quick! Press  two times in about 1.5 seconds.

Write words using predictive text

- Press the number key that corresponds to the letter you want to enter. For example to write "hello" press:



- 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 see how many characters you have left for your message, refer to the counter in the upper right corner of the screen.
- Refer to "Predictive text shortcuts" later in this chapter for more details.



4

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.

- Press  until **Spell** appears in place of **Options** in the lower left corner of the screen.
- Press **Spell**, then enter the word(s) using ABC mode. (See "ABC mode" on page 34.)
- 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.

	Use letter keys for word entry. 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.
Spell	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. indicates uppercase. indicates lowercase.
	Press twice to select predictive input or ABC mode. and indicate ABC mode. , and indicate predictive text input.
Clear	Press once to delete the character to the left of the cursor. Press and hold to clear all characters.
	Press once to add a punctuation mark. To change the underlined symbol, press repeatedly until the desired symbol appears.
160/1	Shows the number of characters available (counts down for each character added). Messages can contain up to 600 characters divided in up to four parts.

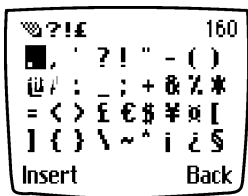
Insert symbols

- 1 Press and  hold until the symbol screen appears.

OR

Press Options and scroll to Insert symbol.

- 2 Scroll to the desired symbol and press Insert.



4

Insert numbers

- 1 To add a number to the message, press and hold . The 123 mode icon (123) appears.
- 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.

5 Use the Phone book

One of the most useful features in the Nokia 6590i phone is its powerful Phone book. You can store up to 500 contacts with multiple phone numbers and text entries per contact.

5 • YOUR PHONE'S MEMORY

Your phone has three options for the use of its memory; **Phone**, **SIM**, and **Phone and SIM** combined. Only names and numbers saved to the memory in use will appear in the screen.



Note: With **Phone and SIM** memory selected, entries saved to both memories appear in the screen. Therefore, you may see the same entry twice when you view the contents of your Phone book.

Note: This feature shares memory space with other features. See "Memory use" on page 18 for more information.

Memory specific information

Feature	Phone	SIM	Phone and SIM
Names capacity	Up to 500 (Depends on number of characters per entry)	Up to 250 names (Depends on SIM card; Check with you service provider)	Up to 750 names (both SIM and phone entries are displayed)
Phone numbers	Up to five numbers per name	One per name (Depends on SIM card; Check with you service provider)	Up to five numbers per name (stored in phone memory)
Can transfer names/ numbers to another phone?	Via IR or PC Suite	Via IR, PC Suite, and SIM	Via IR, PC Suite, and SIM
Can store text information such as e-mail address, web address, street address, note?	Up to four text entries per name	Not available	Up to four text entries per name (stored in phone memory)
Can use Voice dialing?	Yes	No	Yes

Select a memory

- 1 At the Start screen, press **Names**, scroll to **Settings**, and press **Select**.
- 2 Scroll until **Memory in use** appears in the screen and press **Select**. The following options are available:

Phone and SIM	Data is saved to Phone memory, but SIM <i>and</i> Phone entries appear in the screen.
Phone	Data is saved to Phone memory. Only entries saved to Phone memory appear in the screen.
SIM card	Data is saved to the SIM card. Only entries saved to the SIM card appear in the screen.

- 3 Scroll to the memory option of your choice and press **Select**.



Tip: If you wish to save multiple numbers to a name, or information such as an e-mail or street address, choose **Phone** or **Phone and SIM**.

• VIEW THE PHONE BOOK

From the Start screen, press  or  to display the list of names.

• OPEN THE PHONE BOOK

- 1 At the Start screen, press **Names**. The submenus in the following table appear in the screen.
- 2 Use the scroll key ( or ) to highlight an option. Press **Select** () to activate an option or enter its submenu.

Phone book menu

Find	Search for a name in your Phone book or list the names and select from the list
Add entry	Add a new entry (name and number) to your Phone book

Phone book menu

Edit name	Edit an existing name in your Phone book
Erase	Erase names and numbers in your Phone book one by one or all at once
Copy	Copy entries from SIM card to Phone or vice versa. You have the option to copy entries one by one or all at once
Add number	Add a number to an existing entry in your Phone book
Settings	Change how you view the Phone book, check your memory status, and select which memory to use
1-touch dialing	Show a list of 1-touch dialing numbers, if you've assigned any to keys 2-9
Voice tags	Show a list of voice dialing numbers, if you've assigned voice tags to any Phone book entries
Info numbers	If your SIM card and network service support this feature, you can access service numbers on different topics, such as weather and entertainment.
Service nos.	If supported by your SIM card and network service, includes a phone number for a service call to your service provider.
Own numbers	Display the phone number assigned to your phone, if the number is saved to the SIM card by your wireless provider
Caller groups	Set up a caller group. You can define ringing tones and graphics for up to five groups in your Phone book. See "Use caller groups" on page 53 to set up a caller group

Add an entry to the Phone book

- 1 At the Start screen press **Names**, scroll to **Add entry**, and press **Select**.
- 2 Enter a name for the entry and press **OK**.
- 3 Enter the area code and number for the entry and press **OK**.
The name and number are saved to the memory in use (SIM card or phone memory; see "Your phone's memory" on page 42).
OR
 - 1 At the Start screen, enter the area code and number you'd like to save
 - 2 Press and hold **Options**. The number is saved to your Phone book as a stand-alone entry.



Tip: Always save numbers with a + in front to simplify international dialing. See "Make an international call" on page 114 for more information.

Add a number to a Phone book entry

- 1 At the Start screen, enter the area code and number you'd like to save.
- 2 Press **Options** and scroll to **Add to name**.
- 3 Press **Select**. The Phone book name list appears.
- 4 Scroll to the name that you want to add the number to and press **Add no**.
A list of number types appears.
- 5 Scroll to the number type of your preference and press **Select**.
A confirmation message appears in the screen.

Number types

One entry can hold up to 5 numbers, and you can assign a different "type" to each. Once assigned, a number type is easily identified by the icon to the left of the number. The following number types are available:



General



Mobile



Home



Work



Fax



Important: If you plan on using Nokia PC Sync to synchronize your Phone book and your PC's PIM (Personal Information Manager) application, make sure all phone numbers are assigned the correct number type. PC Sync uses this information to synchronize contacts correctly between phone and PC.

ASSIGN OR CHANGE A NUMBER TYPE

- 1 At the Start screen, press the scroll key ( or ) to display your Phone book entries.
- 2 Scroll to the entry containing the numbers you wish to change and press **Details**.
- 3 Use the scroll key to highlight the number you wish to change and press **Options**.
- 4 Scroll to **Change type** and press **Select**.
- 5 Scroll to the number type of your preference and press **Select**.
A confirmation message appears in the screen.

5

Add details to a Phone book entry

- 1 With an entry in your Phone book highlighted, press **Details**.
- 2 Press **Options**, scroll to **Add detail**, and press **Select**.
- 3 Scroll to **E-mail**, **Web address**, **Street addr.**, or **Note** and press **Select**.
- 4 Enter text with the keypad and press **OK**.
 - Press **Clear** to backspace and delete text
 - Press and hold **Clear** to backspace continuously and delete text
 - Press  to switch between letter case (ABC, Abc, or abc)
 - Press and hold  to switch between text and numbers
 - Press  to display special characters (such as @, #, and more)

Save a number (only)

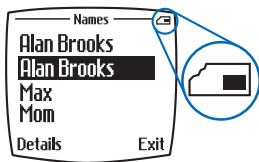
- 1 At the Start screen, enter the area code and number you'd like to save.
- 2 Press and hold **Options**. The number is saved to your Phone book as a stand-alone entry.

Scroll through Phone book entries

Display entries in your Phone book with a press of the scroll key ( or ) at the Start screen.



Tip: Any entries which display the SIM card icon () in the upper right corner of the screen) indicate that entry is saved to the SIM card.



Note: Any entries which appear twice in the screen (as in this illustration), indicate the entry is saved to both phone memory and SIM memory.

Search for Phone book entries

- 1 At the Start screen, press the scroll key ( or ) to display your Phone book.
- 2 Press the key which contains the first letter of the entry you're searching (example; press  twice to search for "Evelyn"). Any entries that begin with "E" appear in the screen, as well as a search box with the magnifying glass icon ().
- 3 Continue entering letters to locate the entry, or move through and highlight other entries using the scroll key.
- 4 Once you've highlighted the desired entry, press  to dial the number. Or, press **Details**, then press **Options** to display the options listed in the following table.
- 5 Scroll to an option. Press **Select** to activate an option or enter its submenu

Options while displaying a Phone book entry

Add voice tag	Add a voice tag to the highlighted entry
Edit number	Edit the highlighted number
Erase number	Erase the highlighted number
Copy number	Copy the entry to another memory location
View	View the highlighted number
Change type*	Change the number to one of the 5 available types: General, Mobile, Home, Work, or Fax
As primary no.*	Assign the number as your primary number. See "Assign a primary number" on page 51 for more information.
Add number	Add a number to the selected entry (phone memory only)
Add detail*	Add an e-mail address, web address, street address, or note to the selected entry
Caller groups	Add the selected entry to one of the 5 available caller groups, or select No group .
Send bus. card	Send a business card containing the selected entry's information to a compatible phone via IR or SMS
Send message	Send a message to the entry via SMS or e-mail
1-touch dialing	Assign the number to a 1-touch dialing location
Edit name	Edit the name of the entry
View name	View the name of the entry
Erase	Erase the entry and all information it contains
	Note: Menu items shown with * are not available in SIM memory.

Edit names

- 1 At the Start screen, press **Names** and scroll to **Edit name**.
- 2 Press **Select** and scroll to the name you wish to change.
- 3 Press **Edit**, modify the name as desired, and press **OK** once you've finished.
 - Press **Clear** to backspace and delete text
 - Press and hold **Clear** to backspace continuously (and delete)
- 4 Press **done** to return to the Start screen.

Erase names and numbers

You can erase single entries in your Phone book or all entries at once.



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

ERASE A SINGLE ENTRY

- 1 At the Start screen, press **Names**, scroll to **Erase**, and press **Select**.
- 2 Ensure **One by one** is highlighted and press **Select**.
- 3 Scroll to the entry you wish to erase and press **Erase**.
- 4 Press **OK** again to confirm the erasure, or **Back** to select another.

ERASE ALL NAMES AND NUMBERS

- 1 At the Start screen, press **Names**, scroll to **Erase** and press **Select**.
- 2 Ensure **Erase all** is highlighted and press **Select**.
- 3 Scroll to **Phone** or **SIM card** and press **Erase**.
- 4 Press **OK** to confirm or **Back** to select from **Phone** or **SIM card** again. If you pressed **OK**, you're prompted to enter the security code (default is 12345).
- 5 Enter the security code and press **OK** to erase or **Back** to select from **Phone** or **SIM card** again.



Important: If you enter the wrong security code 3 times in a row, the phone is blocked and won't accept a code for 5 minutes.

Assign a primary number

For Phone book entries containing more than one number, you can assign the number you dial the most as the primary number.

- 1 At the Start screen, press  or  to display a list of Phone book entries.
- 2 Scroll to a name containing multiple numbers and press **Details**.
- 3 Scroll to the number you'd like to assign as the primary number (or change to the primary number) and press **Options**.
- 4 Scroll to **As primary no.** and press **Select**.
Now, the phone dials the primary number when you select that name.

5

Add an E-mail address

- 1 Press **Names**.
Find appears highlighted.
- 2 Press **Select**.
The **Name** box appears.
- 3 Enter the name you want to add an e-mail address to and press **OK**.
OR
Press **List**, or  or  to scroll through the name list until you find the name.
- 4 Press **Details**, then press **Options**.
- 5 Scroll to **Add detail**, then press **Select**.
E-mail appears highlighted.
- 6 Press **Select**.
The **Text** box appears.
- 7 Enter the e-mail address, then press **OK**.
A confirmation message appears.

Copy Phone book entries

- 1 At the Start screen, press **Names**, scroll to **Copy**, and press **Select**.
- 2 Scroll to **From phone to SIM card** or **From SIM card to phone** and press **Select**. The following options appear in the screen:

One by one	Select and copy entries one by one
All	Copies all entries from the SIM card or Phone
*Primary nos.	Copies only primary numbers. This appears only if you select From phone to SIM . For more information about primary numbers see "Assign a primary number" on page 51.

- 3 Scroll to the copy method of your choice and press **Select**.
 - a) If you selected **One by one**, go to step 4.
 - b) If you selected **All** or **Primary nos.**, go to step 6.
- 4 Scroll to the entry you wish to copy and press **Copy**.
- 5 Scroll to **Keep original** or **Move original** and press **Select**. The entry is copied and you're returned to the list of Phone book entries.
- 6 If you selected **All** or **Primary nos.** in step 3, scroll to **Keep original** or **Move original** and press **Select**.
- 7 Press **OK** to confirm your choice. All entries are copied to the selected destination. Press **Back** to return to the list of Phone book entries, or press  to exit and return to the Start screen.



Caution: Select **Keep original** if you're unsure of which copy method to use. This method ensures the original entries are left intact and copied to the new location. **Move original** deletes the original entries after copying.

View service numbers

Your wireless provider may have saved service numbers to your SIM card. To view these numbers:

- 1 At the Start screen, press **Names**, Scroll to **Service nos.** and press **Select**.
A list of numbers, if any are available, appear in the screen.
- 2 To view details of a number, scroll to the number and press **Details**.



Note: This feature may not be supported by your SIM card. If so, contact your wireless provider if you wish to have it enabled.

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 Scroll to the group you want and 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 when anyone from this group calls you 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. See “Customize a profile” on page 94.

5

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 LOGOS

Each caller group has a logo (picture) associated with it. When you get a call from someone whom you have assigned to a caller group, the graphic associated with that group 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 logo before you select it, scroll to **View** and press **Select**. Press **Back** to return to the menu.

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

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

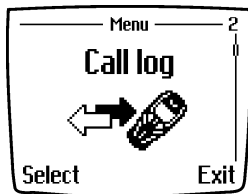
VIEW A RECEIVED LOGO

- 1 When you receive a logo from someone else, **Group logo received** appears.
- 2 Press **Show** to see the logo.
- 3 Press **Options** and scroll to **Save** to save it (you must choose which caller group gets the new logo), or **Discard** to discard it.

6 Check call log

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
- Numbers from which you've received calls
- Numbers you've dialed
- The amount of time you've spent on calls
- The amount of data sent and received over GPRS
- The amount of time you've spent online for data transfers over GPRS



• CHECK FOR MISSED CALLS

Your phone saves the numbers and names (if available) of the last 10 callers that have tried unsuccessfully to reach you.

The screen tells you how many calls were missed. If the caller's name and number are stored in memory, that information appears on the screen.

After missing a call

- 1 Press **List**.
The number appears on the screen. If you have missed more than one call, the missed calls screen shows a list of phone numbers along with how many times that number tried to reach you.
- 2 To dial the displayed number, press **↵**.
- 3 For other options, press **Options**.
- 4 To exit, press **Back**.

At any time

- 1 Press **Menu 2-1 (Call log > Missed calls)**.

- 2 Scroll to the number you want to see.
- 3 To dial the number, press .
- 4 For other options, press **Options**.

• CHECK RECEIVED CALLS

Your phone saves the phone numbers of the 10 most recent calls you've answered, if the caller's number was available.

- 1 Press **Menu 2-2 (Call log > Received calls)**.
- 2 Scroll to the number you want to see.
- 3 To dial the number, press ; for other options, press **Options**.

• CHECK DIALED NUMBERS

Your phone saves the last 20 numbers you've dialed.

- 1 Press **Menu 2-3 (Call log > Dialed numbers)**.
- 2 Scroll to the number you want to see.
- 3 To dial the number, press , or press **Options** for more choices.

Choose options in call lists

When you view the missed calls, received calls, or dialed calls list and press **Options**, the following choices appear on your phone's screen.:

Choice	What it does
Call time	Shows the date and time of the last call. Use the scroll key to view up to five recent call dates/time for the displayed phone number.
Send message	Allows you to send a message to the person who called you.
View number	Displays the caller's phone number if the caller's information is stored in the phonebook.
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 add the displayed number to a name stored in your phone book.
Erase	Allows you to delete the number from the call list.
Call	Allows you to call the number

• CLEAR CALL LISTS

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



Caution: You cannot undo this operation. 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.

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

• USE CALL TIMERS

Your phone automatically tracks the amount of time you've spent on calls.



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.

6

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.

Clear call timers

- 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.

• 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.

Check the data counter

All data counters are displayed in bytes.



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.

- 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/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



Note: The time is displayed in hours:minutes:seconds format.

- 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 timers

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**.

• MANAGE CALL COSTS

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



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.

View call costs

6

- 1 Press Menu 2-6 (Call log > Call costs).
- 2 Scroll to **Last call units** (cost of last call, or current call if applicable) or **All calls units** (cost of all calls since counters were last reset).

Clear call cost counters

- 1 Press Menu 2-6-3 (Call log > Call costs > Call cost settings).
- 2 Scroll to **Clear counters**, then press **Select**.
- 3 Enter your PIN2 code, then press **OK**.

Show costs in units or currency

This feature allows you to choose either units or currency when the phone shows call costs.

- Get the PIN2 code for this feature from your wireless service provider. (See "The PIN2 Code" on page 118.)
- If you choose charging units, contact your wireless service provider for information about the cost of a charging unit.



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

- This feature appears only if supported by your service provider and SIM card.
- 1 Press Menu 2-6-3 (Call log > Call costs > Call cost settings).

- 2 Scroll to **Show costs in**, then press **Select**.
- 3 Enter your PIN2 code, then press **OK**.
- 4 Scroll to **Currency** or **Units**, then press **Select**.
If you select **Currency**, your phone prompts you to enter a home unit price and a currency name. If you select **Units**, a confirmation note appears. Call costs and call cost limits are measured in charging units as agreed to by your service provider.

Limit your call costs

This feature allows you to set an approximate limit for the cost of calls if this function is included in the SIM card. The functionality may vary depending on the network. When the limit you set is reached, no calls can be made except for emergency calls.



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

SET A LIMIT

- 1 Press **Menu 2-6-3 (Call log > Call costs > Call cost settings)**.
- 2 Scroll to **Call cost limit** and press **Select**.
- 3 Enter your PIN2 code (see "The PIN2 Code" on page 118), then press **OK**.
- 4 Scroll to **Set**, then press **Select**.
- 5 Enter the number of charging units or dollars, then press **OK**.



Tip: Press **#** to insert a decimal point.

The number of remaining units is shown when the screen is clear.

REMOVE A LIMIT

- 1 Follow steps 1 and 2 above.
- 2 Scroll to **Off**, then press **OK**.

7 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 memo, and use voice dialing and voice commands 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.

After you obtain this information from your service provider, you must then save the voice mailbox number to your phone.

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.

Additionally, if you receive more than one voice mail message, your phone may display the number of messages that you have received. Finally, if you subscribe to two different phone lines, the message would indicate the line to which the message was addressed.



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

• SAVE THE VOICE MAILBOX NUMBER

Your wireless provider may have already saved your voice mailbox number to your phone. If so, the number will appear in the screen in step 2. Press **OK** to leave the number unchanged.

- 1 Press **Menu 01-11-2** (**Messages > Voice messages > Voice mailbox number**).
The **Mailbox number** box appears.
- 2 Enter your voice mailbox number, then press **OK**.



Note: The number can be up to 48 digits long.



Tip: Save yourself the trouble of entering the mailbox codes each time you dial voice mail. See "Automate voice mail with dialing codes" on page 65 in this section for more information.

• SET UP YOUR VOICE MAIL

- 1 After you've saved the voice mailbox number, press and hold .
- 2 Once you connect and the pre-recorded greeting begins, follow the automated instructions to setup your voice mail.

Listen to your voice messages

Once you've setup voice mail, you can dial the number one of 4 ways:

- Dial the number using the keypad
- Press and hold .
- Press **Listen** if there's a notification message in the screen
- Press **Menu 01-11-1** (**Messages - Voice messages - Listen to voice messages**). After a brief pause, your phone dials the voice mail number.

• AUTOMATE VOICE MAIL WITH DIALING CODES

You can insert special characters called “dialing codes” into phone numbers such as voice mail and then save the number to a 1-touch dialing location. Dialing codes instruct the receiving system to pause, wait, bypass, or accept the numbers that follow them in the dialing string. See “Use special characters” on page 36.



Important: If you enter your PIN as part of the automated dialing process, anyone who has access to your phone will be able to access your voice mail as well. To prevent unauthorized use of your phone, see “Manage phone security” on page 115.



Note: Each voice mail service can vary. The examples and steps that follow are for clarification. Check with your wireless provider if you have specific questions about your voice mail service.

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Write down some information

- 1 Write down your voice mailbox number.
- 2 Call and check your voice mail as you normally would.

Write down your interaction with the recorded prompts. Keep in mind that each voice mail service may vary. However, it should look something like this:

Dial 2145551212, pause 5 seconds, press 1, pause 2 seconds, enter 1234, press (pound)



Important: Be precise, you'll need this information in Setup voice-mail with dialing codes below.

INSERT DIALING CODES

Press  to cycle through available dialing codes. Once the desired code appears, pause briefly to insert the code into the dialing string. See “Use special characters” and “In 123 mode” on page 37 for details.

Set up voice mail with dialing codes

- 1 At the Start screen, press **Menu 01-11-2 (Messages > Voice messages > Voice mailbox number)**.
The **Mailbox number** box appears.
- 2 Refer to the dialing codes table above and enter any codes as necessary along with the information that you wrote down earlier.
For example, if you have to pause for 5 seconds after connection to voice mail, enter **p** twice (after the voice mailbox number).
Example: **2145551212pp**.
- 3 Enter any remaining pauses, PIN codes, and other information that allows you to listen to your messages and press **OK**.
Now to dial and listen to your voice mail, just press and hold .
No other keypresses should be necessary.

• 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.

Add a voice tag to a Phone book entry

To create entries in the Phone book, see "Add an entry to the Phone book" on page 46.

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



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

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



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

Notes about voice tags

Before using voice dialing, note 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.



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

Make a call using a voice tag

- 1 Press and hold **Names**.

You can also press and hold the down volume key.

When you hear several beeps and **Please speak now** appears, release the button.

- 2 Pronounce the voice tag clearly into the microphone. **Searching** appears. When the phone finds the voice tag, **Found** appears, and the phone automatically dials the number.

If the phone does not locate a number, **No match found** appears and you return to the Start screen.

VOICE DIAL WITH THE HEADSET

After you've assigned voice tags to those entries you wish to dial, you can also voice dial a number using a headset (See "Accessories" on page 169.)

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

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Listen to a voice tag

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

Change or erase a voice tag

- 1 At the Start screen, press **Names**, scroll to **Voice tags**, and press **Select**. Voice tags appear one at a time in alphabetical order.
- 2 Scroll until the voice tag you wish to change or erase appears in the screen, then press **Options**.

Scroll to **Change** or **Erase** and press **Select**.

• USE VOICE COMMANDS

You can command your phone to perform up to 5 different functions with your voice. Voice commands work similar to voice dialing, so you'll need to associate a voice tag with each command.



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

View available functions

To see which functions in your phone work with voice commands:

Press **Menu 7-3** (**Extras > Voice commands**) and scroll through the list of functions.

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

7

Add a voice tag for the command

- 1 Press **Menu 7-3** (**Extras > Voice commands**).
- 2 Scroll to the phone function, then press **Select**.
- 3 Scroll to one of the available features, and press **Options**.
Add command appears on the screen.

- 4 Press **Select**.

Press **Start**, then speak after tone appears on the screen.

- 5 Press **Start**, and speak the voice tag clearly into the microphone.



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

The phone replays then saves the recorded tag.

Activate a voice command

After you associate a voice tag with a phone function, you can issue a command by speaking the voice tag. There are three ways to activate a voice command:

- 1 If you have the headset attached, press and hold the headset button.

OR

Press and hold **Names**.

OR

Press and hold the volume down key.

- 2 When **Please speak now** appears, pronounce the voice tag clearly into the microphone. When the phone finds the tag, **Found** appears, and the command is issued.

Work with an existing voice command tag

After you have associated a voice tag to a command, you can choose one of the following options:

- Playback
- Change
- Erase

PLAY BACK A VOICE COMMAND TAG

- 1 Press Menu 7-3 (Extras> Voice commands)

A list of phone functions appears, with **Profiles** highlighted.

- 2 Scroll to the phone function containing the voice command you want to hear and press **Select**.
For example, **Profiles**.
- 3 Scroll to the profile with the voice command you want to hear.
Look for the voice tag icon ().
- 4 Press **Options**.
Playback appears highlighted.
- 5 Press **Select**.
Playing voice command appears as the phone plays the command.

CHANGE OR ERASE A VOICE COMMAND TAG

- 1 At the Start screen, press **Menu 7-3 (Extras > Voice commands)**.
- 2 After a brief pause, the list of phone functions appears in the screen.
- 3 Scroll to the feature you wish to modify and press **Select**.
- 4 When the command you wish to modify appears in the screen, press **Options**.
- 5 Scroll to **Change** or **Erase** and press **Select**.
 - If you selected **Change**, press **Start**, then record the new tag.
 - If you selected **Erase**, a confirmation message appears. Press **OK** and the tag for the selected command is erased.

8 Messages

Understand text messaging

If you subscribed to a message service, you can send and receive messages to compatible phones that have a message service. You can also send and receive picture messages and e-mail if supported by your network. Messages can contain up to 600 characters divided in up to 4 parts.

To send and receive messages you need:

- A text messaging service through your wireless provider
- A message center number saved in your phone

Message icons

Icons that precede the title of a message indicate the following:

	The message has not been read
	The message has been read
	The message has not been sent and is saved in a folder.
i	The message is a delivery report

• SET UP MESSAGE PROFILES

Choose a message sending profile

Your Nokia 6590i phone can send and receive text messages in several formats: text, email, page, and fax. With message sending profiles, you can quickly select a profile that is compatible with different formats and different message centers.

- 1 Press Menu 01-14-1-1(Messages > Message settings > Text messages > Sending profile
Sending profile appears followed by Default profile.



Tip: Use the Default profile for the message format you use most often.

- 2 Press Select to begin setting the features for the Default profile.

Save the message center number

Messages sent by your phone are routed through your wireless provider's message center. Normally, this number is saved to your phone by your wireless provider.

- 1 With Default profile highlighted, press Select.
Message center number appears.
- 2 Press Select.
The Center number box appears.
- 3 Enter your message center number, then press OK.

Choose the message format

- 1 While in Default profile, press Select and scroll to Messages sent as.
- 2 Press Select and scroll to Text, E-mail, Page, or Fax.
For example, Text.
- 3 Press OK to set the message type for that message sending profile.



Note: In order to receive a converted message, the recipient needs to have the appropriate terminal device, such as a fax machine, pager, or e-mail account.

Choose other message settings

8

Choice	What it does
Default recipient number	This number is used to control text messages. Contact your wireless provider for details.
Email server	This number is used to control e-mail messages. Contact your wireless provider for details.
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	Allows your recipient to reply through the same message center. Note: Do not choose Yes 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, and does not appear in the Default profile.

Set up additional message sending profiles

- 1 Press Menu-01-14-1-1(Messages > Message settings > Text messages > Sending profile
Sending profile appears followed by Default profile.
- 2 Scroll to the profile you want (Profile 2, 3, or 4), and press Select.
For example, Profile 2.
- 3 Follow the steps under "Save the message center number" on page 73.

- 4 After saving the message center number, scroll to **Messages sent as** and press **Select**.
- 5 Scroll to the message format you want and press **OK**.
For example, **E-mail**.
- 6 Scroll to **E-mail server** and press **Select**.



Check with your wireless provider for the e-mail server number.

- 7 Enter the e-mail server number and press **Options**.

OR

To search for the number in the Phone book, scroll to **Find** and press **Select**. Search the Phone book and when you find the number, press **OK**.

The **E-mail server number** box appears with the number filled in.

Press **Options**.

- 8 **Accept** appears highlighted.
- 9 Press **Select**.
A confirmation message appears.

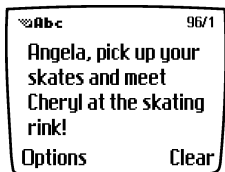
8

• WRITE A MESSAGE



Tip: Review ABC mode and predictive text input from "Text entry" on page 34 before reading this section.

- 1 Press **Menu** and **Select**. (**Messages** > **Write message**).
Write messages appears briefly, followed by the message screen.
- 2 Write the message. The indicator in the upper right corner shows the number of characters available (counts down for each character added). Messages can contain up to 600 characters divided in up to 4 parts.



Send a message as text

SEND TO ONE

- 1 When you're finished writing, press **Options**.
Send appears highlighted.
- 2 Press **Select**.
- 3 Enter the recipient's phone number, or press **Find** to retrieve a number from your Phone book, and press **OK**.
Sending message appears. When the message is successfully sent, **Message sent** appears.



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.



Important: 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.

SEND TO MANY

- 1 When you're finished writing, press **Options**, then scroll to **Sending options**.
- 2 Press **Select**.
Send to many appears highlighted.
- 3 Press **Select**.
The Phone book appears.
- 4 Scroll to the first name that you want to send the message to and press **OK**.
Confirmation messages appear and the Phone book appears again.

- 5 Scroll to another name and press **OK**. Continue sending the message to as many names in your Phone book as you wish.
- 6 When you're finished sending the message, press **Done**, then press **Back** twice to return to the message screen.
OR
Press and hold  to return to the Start screen.

Send the message as e-mail

- 1 After composing your message using the keypad, press **Options**.
 **Note:** Be sure and leave enough space in the total character count for the e-mail address.
- 2 Scroll to **Sending options** and press **Select**.
- 3 Scroll to **Sending profile** and press **Select**.
- 4 Scroll to the profile you set up for sending e-mail, and press **Select**.
- 5 Enter the recipient's e-mail address (or press **Find** and retrieve it from your Phone book) and press **OK**.
- 6 The e-mail server number box appears. Enter the number and press **OK**. Your e-mail is sent.

 **Note:** Before you send an e-mail message, you need to know the e-mail gateway number. Contact your service provider for more information.

Send a text message as a fax

Your Nokia 6590i phone can operate as a fax modem. See the PC Connectivity Guide for details.

Save messages in the outbox

When you write a message, you can 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 **Select**.

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**.
As txt msg and **As e-mail** appear.
- 5 Scroll to your choice and press **Select**.

AS TEXT MESSAGE

- 1 After you've selected **As text msg**, the **Number box** appears.
- 2 Enter the recipient's phone number and press **OK** to send the message.

AS E-MAIL

- 1 After you've selected **As e-mail**, the **E-mail address box** appears.
- 2 Enter the recipient's e-mail address (or press **Find** and retrieve it from your Phone book) and press **OK**.
- 3 The **E-mail server box** appears. Enter the number for your service provider's e-mail server (also known as "e-mail gateway," get this from your wireless provider) and press **OK**. The message is sent.

Send a message from the Phone book

You can send text and e-mail messages directly from the Phone book.

CHOOSE A NAME

- 1 Press  or .
- The name list appears.
- 2 Scroll to the name you want and press **Details**.
- The name and any information stored with it appears.



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

SEND A TEXT MESSAGE

- 1 When the name appears, scroll to the phone number you want (if there is more than one stored) and press **Options**.
-  **Note:** The phone number you choose must be capable of receiving short text messages.
- 2 Scroll to **Send message** and press **Select**.
 - 3 Write your message using the keypad.
 - 4 When you're finished writing, press **Options**.
 - Send** appears highlighted.
 - 5 Press **Select**.
 - The message is sent and confirmation messages appear.

SEND AN E-MAIL MESSAGE

Make sure you have an e-mail address entered into the Phone book for the name you that want to send an email. See "Add an entry to the Phone book" on page 46 for more details.

- 1 When the name appears, scroll to the email address and press **Options**. **Send e-mail** appears highlighted.
- 2 Press **Select**.
- The **Subject** box appears.

- 3 Enter a subject for the e-mail and press **OK**.
The message screen appears.
- 4 Write your message using the keypad.
- 5 Once you have finished writing, press **Options**.
Send e-mail appears again
- 6 Press **Select**.
If the **E-mail server number** box appears, enter the number for your service provider's e-mail server (also known as "e-mail gateway," get this from your wireless provider) and press **OK**.

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• READ TEXT MESSAGES

Read new text messages now

When you receive a text message, the phone displays **Message received**, and the unopened letter icon  appears. The phone can also make a sound (see "Customize a profile" on page 94).

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

Read new text messages 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 **Select**.
A list of message headers appears. The  icon in front of the header indicates that a message has been read. The  icon indicates that a message has not yet been read.
- 4 Scroll to the message you want to read, then press **Select**.
- 5 If the message is long, use the scroll key to scroll through the message.

Choose text message options

While viewing a message, you can choose one of the following options:

Choice	What it does
Erase	Allows you to delete the message.
Reply	Allows you to choose templates, use standard replies "Yes," "No," "Thank you," or compose your own reply from a blank screen.
Chat	Converse with others in "chat room "format.
Use detail	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.
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.
Details	Shows, for example, the sender's name and phone number, message center used, reception date and time.
Save Picture	Allows you to save a picture message to your phone.

Read linked messages

Your phone can receive one long message (up to 600 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 screen. 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.

8

• STORE MESSAGES

The inbox, outbox, and folders share a given amount of memory in your SIM card. When SIM memory is full, messages are automatically saved to the phone memory. When both of these memory banks are full, the message indicator blinks. If you receive a text message when the memory is full, the phone displays the message **No space: message waiting**. You should delete one or more old messages to make room for the new message. The network waits and resends the message at a later time.



Note: The number of messages your phone can store in the inbox and outbox may vary, depending on the SIM card.

Note: This feature shares memory space with other features. See "Memory use" on page 18 for more information.

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 screen.
- 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 **Exit** 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.

8

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** and scroll to **Add folder**.
- 4 Press **Select**. The folder name box appears.
- 5 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 screen.
- 3 Scroll to the folder you wish to remove and press **Options**.

- 4 Scroll to **Delete folder** and press **Select**.
- 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.

8

• CHAT WITH OTHER PHONE USERS

You can have a conversation with another person using text messages. Chat is designed for fast message sending through a connection between the sender and receiver. You can start by using the Chat menu or by selecting the Chat option while you're reading a received message.



Note: Chat is a network feature. Contact your service provider for pricing and other information.

About the chat screen

On the chat screen, you'll see:

- your chat name, followed by a colon (:) and a message
- your initial message appears at the bottom of the screen
- each reply appears above the last message



Start a chat session

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

- 4 Enter your chat name and press **OK**.
- 5 Write your chat message, press **Options**, then press **Send**.
The reply from the other party is shown above your original message.
- 6 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 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 38".

8

- 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**.
The prediction on appears on the screen.

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**.



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

Change your nickname

- 1 From the message screen press **Options**.
- 2 Scroll to **Chat name**, press **Select**, then enter a new nickname.

End your chat session

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

• USE PICTURE MESSAGES

Your phone offers you 10 picture message templates under **Messages > Templates**. You can use these templates to send pictures to your friends and family. You can also save new pictures in the Templates folder.

Notes about picture messages

- You can send and receive pictures if this function is supported by your service provider.
- Only phones that offer picture messaging can receive and display the images.
- 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.
- Pictures are not saved in SIM card memory and won't transfer if you use your SIM card with another phone.

Send picture messages

- 1 Press **Menu**, then **Select**.
- 2 Scroll to **Templates**, then press **Select**.
- 3 Scroll 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 Recall or enter the phone number to which you want to send the picture message.



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

- 6 Press **OK**.

Send picture messages with text

- 1 Press **Menu 01-1 (Messages > Write messages)**.

- 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**,
- 7 Enter the phone number or recall a number from your Phone book, then press **OK**.

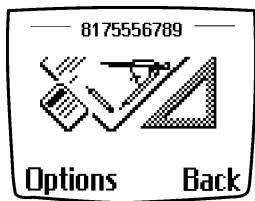


Note: The phone number you choose must be able to receive picture messages.

Receive picture messages

8

- 1 When your phone displays **Message received**, press **Show**.
The picture appears along with the senders name or phone number at the top of the screen.
- 2 If the picture has a text message with it, scroll up or down to see the entire message.
- 3 Press **Options**. All message handling options are available, including **Save picture**.
- 4 To save the picture message, scroll to **Save picture** and press **Select**.
- 5 The **Picture** title box appears. Edit the text in the box, if needed and press **OK**. The picture message is saved in the **Templates** folder.



PREVIEW, CHANGE, OR ERASE A PICTURE MESSAGE

- 1 After a picture has been attached to your message, press **Options** at the message edit screen.
- 2 Scroll to one of the following options and press **Select**.
 - a) **Preview** - Previews the attached message before sending.
Press **Back** to return to the list of options.

- b) **Change picture** - Takes you back to the picture list.
Scroll to highlight a new picture, press **View** and then press **Attach** to replace the previous picture in your message.
- c) **Erase picture** - Press **OK** to erase the picture from your message, or press **Back** to return to the list of options.

• USE A TEMPLATE

Templates are short, pre-written messages which can be recalled and sent as original messages, or used as a quick reply when you're short on time. You can also customize and save an existing template or create a new one of your own. Templates are stored in the **Templates** folder.

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Send a template message

- 1 At the Start screen, press **Menu 01-8** (Messages - Templates). After a brief pause, the templates folder opens to display a list of templates.
- 2 Scroll to the template of your choice and press **Select**. Available templates are as follows:

Message Templates

"Please call"	"I am late. I will be there at"
"I'm at home. Please call"	"See you in"
"I'm at work. Please call"	"See you at"
"I'm in a meeting, call me later at"	"Sorry, I can't help you on this."
"Meeting is canceled."	"I will be arriving at"



Note: Pictures are also stored in the Templates folder.

- 3 If you'd like to send the template as it is, press **Options**, scroll to **Send**, and press **Select**. Then skip to step 4.

If you'd like to modify the template before sending:

- a) Press **Options**, scroll to **Edit** instead of **Send** and press **Select**.
As text msg. and **As e-mail** appear.
 - b) Scroll to your choice, press **Select**, and edit the message.
 - c) Press **Options**.
Send appears highlighted.
 - d) If you want to save the template before sending, scroll to **Save message** (instead of **Send**), and press **Select**.
Replace original? appears in the screen.
 - e) Press **OK** to save over the original template, or press **No** to save it as a new template to a folder of your choice.
- 4 Refer to "Send a message as text" on page 76, or "Send the message as e-mail" on page 77.

Insert a template into a message

To insert a template into a message that you're writing, press **Options**, scroll to **Use template**, and press **Select**.

Create a custom template

- 1 Press **Menu 01-1** (Messages - Write message). After a brief pause, the message entry screen appears in the screen.
- 2 Compose your custom template and press **Options**.
- 3 Scroll to **Save message**, and press **Select**.
- 4 Scroll to **Templates** and press **Select**. Your message is saved as a template.

• RECEIVE MULTIMEDIA MESSAGES (MMS)

A multimedia message (MMS) can contain text and images. Your phone has a multimedia message viewer for viewing messages and a multimedia inbox for storing saved messages.



Note: This function can be used only if it is supported by your network operator or service provider. Only devices that offer compatible multimedia message or e-mail features can receive and display multimedia messages. How a multimedia message looks on other devices may vary.

Note: This feature shares memory space with other features. See "Memory use" on page 18 for more 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 your 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**.

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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 key to view the different elements of the message, for example, text, or images.

8

Discard a multimedia message

- 1 To discard the message, press **Exit**. **Discard received message?** appears.
- 2 Press **OK** to confirm.

Choose multimedia message options

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



Note: The order and number of options in this menu may vary.

Choice	What it does
Save message	Allows you to save the multimedia message in the Multimedia inbox
Erase message	Appears when viewing a saved message and 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**

This network service lets you receive short text messages on various topics, such as weather and traffic conditions, from your service provider.



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.

9 Personalize your phone

• PROFILES

Profiles define how your phone reacts when you receive a call or a message, the sounds your keypad makes whenever you press a key, and more. Ringing options, keypad tones, and other settings for each of the 5 available profiles can be left at their default setting, or customized to suit your needs. Select and customize the most suitable profile for your situation, such as when you're in a meeting or outdoors. The following profiles are available:

- Normal • Silent • Meeting • Outdoor • Pager

Select a profile

- 1 At the Start screen, press **Menu 3** (Profiles).
After a brief pause, the list of profiles appear in the screen.
- 2 Scroll through the list of profiles and press **Select** once the profile of your choice is highlighted.
- 3 Scroll to **Select** and press **Select**.



Tip: You can briefly press the power key to display the list of profiles. Press the power key again to scrolls through the list. Once a profile is highlighted, press and hold the power key to select the profile.

Customize a profile

- 1 Press **Menu 3** (Profiles).
- 2 Scroll to the profile you want to customize (for example, **Normal**) and press **Select**.
- 3 Scroll to **Customize**, then press **Select**. The Customize menu appears.
- 4 Use the scroll key to display each of the options in the following table. Choose the option you want to customize and press **Select**.

Option	What it does
Ringing options	Allows you to chose a ringing style. Your choices include Ring , Ascending , Ring once , Beep once and Silent .
Ringing tone	Allows you to chose from 20 pre-programmed tones. You can also download up to 10 ringing tones, see "Download ringing tones" on page 100 for more information.
Ringing 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 chose an alert style. Your choices include No tone , Standard , Special , Beep once , Ascending and Personal .
Keypad tones	Allows you to set the volume for keypad tones.
Warning tones	Allows you to turn warning and confirmation tones on or off.
Alert for	You can chose 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 53.
Profile name	Allows you to give a new name to the following profiles: Silent , Meeting , Outdoor or Pager .

Set a timed profile

Timed profiles can be very useful in preventing missed calls. For example, suppose you attend an event that requires you set your phone to the **Silent** profile before the event starts, but forget to return it to **Normal** until hours after the event is over. During this time, you've missed several calls because your phone's ringing tone was silent. A timed profile can prevent this from happening by automatically returning your phone to the default profile at a time you specify.



Note: Timed profiles can be set up to 24 hours in advance.

- 1 While viewing the list of profiles, scroll to the profile you wish to activate and set for timed expiration, then press **Select**.
- 2 Scroll to **Timed** and press **Select**.
- 3 Enter the time of day for the profile to expire and press **OK**.

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

Accessory profiles

This feature lets you select which profile is activated when you attach one of these Nokia-approved accessories to your phone:

- Headset
- Hands-free car kit
- Loopset
- TTY/TDD



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

The **Accessory settings** menu does not appear until you connect the headset, car kit, or loopset.



Tip: When you connect an accessory with its own speaker to your phone, the phone's volume keys adjust the volume for that accessory.

DEFAULT PROFILE

For example, set the phone to select the Silent profile when you connect a headset.

- 1 Press Menu 4-5 (Settings>Accessory settings)
Headset appears highlighted.

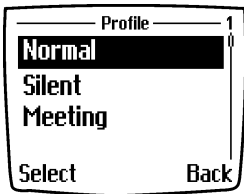
- 2 Press Select.
Default profile appears along with Current profile.

- 3 Press Select.
Current profile appears highlighted, along with a list of profiles.

- 4 Scroll to the profile you want and press Select.

For example, Silent.

A confirmation message appears. Now when you connect your headset, your phone switches to the Silent profile.



Tip: If you don't want the phone to change profiles when you connect an accessory, repeat the steps above, but select **Current profile**.

SET AUTOMATIC ANSWER

This profile sets your phone to answer incoming calls automatically.



Note: This profile is available only after your phone has been connected to a Nokia approved headset, loopset or car kit. This feature applies only to voice calls.

- 1 Press Menu 4-5 (Settings > Accessory settings).
- 2 Scroll to Headset, Handsfree, or Loopset and press Select.
- 3 Scroll to Automatic answer, and press Select.
- 4 Scroll to On and press Select.

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.
- 2 Press Menu 4-5-3 (Settings > Accessory settings > Loopset).
- 3 Scroll to Use loopset, then press Select.
- 4 Scroll to Yes, then press Select.



Note: The headset is the default accessory. If you follow steps 1 through - 4 above, you set the loopset as the default accessory recognized by your phone.

SET UP 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).

ADJUST VOLUME CONTROL

You set your volume by adjusting the earpiece volume buttons. See "Understand your phone" on page 11 for an illustration of volume control keys located on the left side of the Nokia 6590i phone.

• CHOOSE THE DISPLAY LANGUAGE

You can choose your phone's display language.

- 1 Press Menu 4-3-1 (Settings > Phone settings > Language).
- 2 Scroll to the language you want, then press Select.

• SET UP THE CLOCK

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 132).

Set the time

- 1 Press **Menu 4-1-1** (**Settings > Time settings > Clock**).
- 2 Scroll to **Set the time**, then press **Select**.
- 3 Enter the current time, using two digits for both hours and minutes.
OR
Enter hours and minutes in 24-hour format.
- 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.

The phone may ask you to enter the date. Enter the date in **mm-dd-yyyy** format and press **OK**. See

Select the time format

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

Display the clock

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

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

• DOWNLOAD RINGING TONES

You can download up to ten ringing tones to add to the list of ringing tones. For details about this network service, 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



Note: 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**.
Playback appears highlighted.
- 2 Press **Select**.

The phone plays the ringing tone.

Save received ringing tones

- 1 After listening to the ringing tone, press **Quit**.
Playback appears highlighted.
- 2 Scroll to **Save tone**, then press **Select**.
The tone is saved to your list of ringing tones.

Discard received ringing tones

If you don't want to save the ringing tone, press **Exit** without saving it, or scroll to **Discard**, then press **Select**, confirm with **OK**.

• USE A SCREEN SAVER

Choose a digital or analog clock as a screen saver. When you activate screen saver, the clock appears on the screen after your phone has been inactive for a time (called "timeout") that you set. Then, the clock stays visible until you press any key.

9

Choose a screen saver

- 1 Press **Menu 4-3-3** (Settings>Phone settings>Screen saver).
- 2 Scroll to **Clocks** and press **Select**.
- 3 Scroll to the clock format you want and press **Select**.
The Screen saver menu appears again.
- 4 Scroll to **On** and press **Select**. A confirmation message appears.

Choose a timeout

- 1 While in the Screen saver menu, scroll to **Timeout** and press **Select**.
Choose one of the two preset times of 10 and 30 seconds.
OR
Scroll to **Other** and press **Select**.
- 2 Enter a time in minutes/seconds.
The time can range from five seconds to 59 minutes
- 3 Press **OK** to set the time.

- **RESTORE FACTORY SETTINGS**

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



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

10 Advanced calling features

• ACTIVE CALL OPTIONS

Use call waiting

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

ACTIVATE/CANCEL CALL WAITING

- 1 Press Menu 4-2-5 (Settings > Call settings > Call waiting).
- 2 Scroll to Activate or Cancel.
- 3 Press Select.

CONFIRM CALL WAITING STATUS

- 1 Press Menu 4-2-5 (Settings > Call settings > 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  or Answer to put the current call on hold and answer the waiting call.

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

1 Press **Options** and scroll to **End call**.

2 Press **Select**.

THIRD CALL WAITING

If you have both an active and a held call and a third call is waiting, you must end the active call to answer the waiting call.

1 Press  to end the active call.

2 Press **Answer** to answer the new call.

Use in-call options

During a call, press **Options** to see the In-call menu. Your choices are:

Choice	What it does
Lock keypad	Disables the phone's keypad.
Record	Allows you to record the active call. For more information, see "Record a phone conversation" on page 142.
End call	Ends current call.
New call	Makes a call when you have a call in progress.
Touch tones	Sends touch tones.
Phone book	Switches you to the Phone book.
Menu	Switches you to the menu.
Mute	Mutes the phone's microphone. You can hear the caller but they can't hear you.
Hold	Holds or releases a call.

Put a call on hold

- 1 To put a call on hold, press **Hold**.
- 2 To return to the call, press **Unhold**.

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**.

Note: With this method, the current caller will not hear the touch tones as you press the buttons.

- 3 Enter the second phone number, or recall it from the Phone book.
- 4 Press **Call**.

10

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.

END THE ACTIVE CALL

Press .

The held call becomes the active call.

Send touch tones

When you press the keys during a call, your phone generates sounds known as touch tones. Use touch tones to access many automated, over-the-phone services such as voice mail, checking airline arrival/departure times, and bank balances.



Note: You must be on an active call to send touch tones.

SAVE TOUCH TONE STRINGS

Store touch tone strings the same way you save phone numbers (see "Add an entry to the Phone book" on page 46).

For frequently used strings of numbers, you can save an entire sequence of digits in your Phone book and send it as a touch tone string.

SEND A TOUCH TONE STRING

- 1 Press **Options**.
- 2 Scroll to **Touch tones** and press **Select**.
- 3 Enter a touch tone string or recall a touch tone string from the Phone book and press **Tones**.
A confirmation message appears.

End all calls

- 1 Press **Options**.
- 2 Scroll to **End all calls**, then press **Select**.

Access the Phone book

You can access the Phone book while in a call.

This option appears in the menu as **Phone book**.

- 1 Press **Options**.
- 2 Scroll to **Phone book** and press **Select**. Now your Phone book functions are available. See "Use the Phone book" on page 42.

Access menus

- 1 Press **Options** and scroll to **Menu**.
- 2 Press **Select** then scroll up or down to access any of your phone's menus.
- 3 Press **Back** and **Exit** to return to the call.



Important: If you press , your caller is disconnected.

Mute/unmute the microphone

You can mute and unmute your phone's microphone while a call is in progress. The difference between *mute* and *hold* is that mute lets you hear the other caller.

- 1 Press **Options**.
- 2 Scroll to **Mute**, then press **Select**.
- 3 To unmute the microphone, press **Unmute**.

Muting and unmuting also affects the microphones of any accessories connected to the phone.

Make a conference call

This network service allows you to make conference calls with your phone. Check with your service provider for details.

- 1 Place a call to the first person.
- 2 Press **Options** and scroll to **New call**.
- 3 Press **Select**, recall or dial 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.



Note: Check with your service provider for availability.

- 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. (Check with your service provider for availability.)
- 4 Press **Options**.
- 5 Scroll to **End call**, then press **Select**.

10

• USE CALL FORWARDING

This network service lets you forward your incoming calls to another phone number.



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.

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.

• WORK WITH TWO PHONE LINES

If your particular SIM card supports it, your phone can have two phone lines. Contact your service provider about this feature.

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.

To switch from line 1 to line 2:

- 1 At the Start screen, press and hold .
- 2 Press **OK**.

Line 2 selected appears briefly and the number **2** appears in the display's upper left corner.

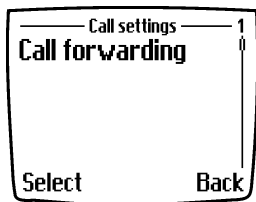
If you use two phone lines, you may be given a voice mailbox number for each line so you will need to save each phone line's voice mailbox number separately.

To do this, follow steps 1 and 2 above and select the outgoing line. Then, refer to "Save the voice mailbox number" on page 64. Repeat the steps above to select the other line and save its voice mailbox number.

10

Activate call forwarding

- 1 Press Menu 4-2-1 (Settings > Call settings > Call forwarding).
 - 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





Note: Check with your service provider for available options.

- 2 Press **Select**.
- 3 **Activate** is highlighted; press **Select**.
- 4 Select **To voice mailb.**
OR
Select **To other no.**
- 5 If you choose **To other no.**, enter the phone number to which you want to forward calls, then press **OK**. You can press **Number** to see if you entered the phone number correctly.

Cancel call forwarding

- 1 Press Menu 4-2-1 (**Settings > Call settings > Call forwarding**).
- 2 Scroll to **Cancel all call forwarding** and 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 4-2-1 (**Settings > Call settings > 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**.

• USE ANYKEY ANSWER

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

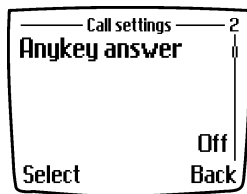
 **Note:** Anykey answer does NOT work with the Power button, , or  and  (left and right selection keys).

Turn on Anykey answer

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

Turn off Anykey answer

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



10

• USE AUTOMATIC REDIAL

Occasionally, your network may experience heavy traffic, resulting in a "fast" busy signal when you dial. With automatic redial activated, your phone redials the number up to 10 times, and notifies you once the network becomes available.

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

Activate automatic redial

- 1 Press Menu 4-2-3 (Settings > Call settings > Automatic redial).
- 2 Scroll to On, then press Select.
- 3 Press and hold Back to return to the Start screen.

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.

• 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**, 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 4-2-7 (Settings > Call settings > Send own caller ID when calling).
- 2 Chose one of the following options:
 - **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.

• 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. Check with your service provider for details. Also, any key (except key 1) can be set up to dial emergency numbers such as 911.

Activate 1-touch dialing

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

Assign a number to a 1-touch dialing key

- 1 Press **Names** and scroll to **1-touch dialing**.

- 2 Press **Select**.

2 (empty) appears.

If **Assign** appears, Key 2 does not have a phone number assigned to it. If **Options** appears, then the number shown is assigned to Key 2. To change it, See "Change 1-touch dialing numbers" on page 113.

- 3 Press **Assign**. Enter the number or recall it from the Phone book, then press **Select** twice.

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.

1-TOUCH DIALING FOR KEY 1

- If your phone is set up for voice mail, you can press and hold  and your phone dials voice mail.
- If you assign a 1-touch number to key 1, press , then press . The phone dials the 1-touch number.

10

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 the key that you want to erase and press **Options**.

- 4 Scroll to **Erase** and press **Select**.
- 5 Press **OK** to confirm.

• 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 .

• 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 4-3-6** (**Settings > Phone settings > 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, 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.

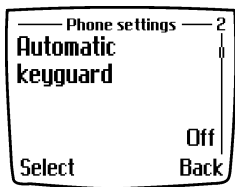
11 Manage phone security

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
- Restrict outgoing or incoming calls

• LOCK THE KEYPAD (KEYGUARD)

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



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Note: When Keyguard is on, calls may be possible to emergency numbers (for example, 911 or other official emergency number). However, one-key emergency dialing does not operate. Key in the emergency number and press . The number is displayed only after you have keyed in its last digit.

Manual Keyguard

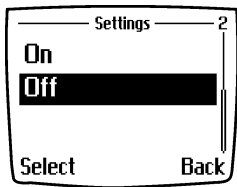
- To lock the keys, press **Menu**, then .
- To unlock the keys, press **Unlock**, then .

If the phone rings with Keyguard on, press to answer the call.

Automatic Keyguard

You can set your phone to automatically lock the keys.

- 1 Press **Menu** 4-3-2 (**Settings**>**Phone settings**>**Automatic keyguard**).
- 2 Scroll to **On** and press **Select**.
Set delay appears, with the time displayed in **minutes : seconds**.
- 3 In minutes and seconds, enter the amount of time you want the phone to wait before turning Keyguard on, and press **OK**. For example, to enter five minutes, press    , then **OK**.
A confirmation message appears.



Tip: The shortest time you can enter is 10 seconds, and the longest time you can enter is 60 minutes.

You can still press **Menu**, then  to unlock the keys manually and use all the features of your phone. When you're finished, keyguard automatically activates at the time you set.



Note: Turn off Automatic Keyguard when using PC suite.

• ABOUT ACCESS CODES

Use access codes to change your security code, PIN code, and PIN2 code.



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

The security code

The security code controls access to features such as the security level and is supplied with the phone. The preset code is 12345. Nokia recommends that you change this code



Note: If you enter the wrong security code five times in succession, you won't be able to enter a code for five minutes, even if you power off the phone between incorrect entries.

CHANGE YOUR SECURITY CODE

Once you change the security code from its preset of 12345, keep the new code secret, and in a safe place separate from your phone.

- 1 Press **Menu** 4-7-6-1 (Settings > Security settings > Access codes > Change security code).
After a brief pause, you're prompted to enter the current security code (default is 12345).
- 2 Enter the current security code and press **OK**. You're prompted to enter the new security code.
- 3 Enter the new security code (up to 10 characters) and press **OK**. You're asked to re-enter the new security code for verification.
- 4 Enter the new security code again and press **OK**. A message appears in the screen confirming your security code has been changed.

The PIN code

The PIN code protects the SIM card from unauthorized access. The PIN code can be 4 to 8 digits in length. After three successive incorrect entries the PIN code is blocked and you'll be asked to enter the personal unblocking key (PUK) code.

11



Note: Get the original PIN code from your wireless provider.

PIN CODE REQUEST

Enable your phone to request the PIN code upon power-up. This provides extra security in case your phone is lost or stolen.

- 1 Press **Menu** 4-7-1 (Settings > Security settings > PIN code request).
- 2 After a brief pause, you're prompted to enter the current PIN code. Enter the PIN code and press **OK**.
- 3 Scroll to **On** and press **OK**. A message appears in the screen confirming your selection.

CHANGE YOUR PIN CODE

Before you can change your PIN code, you'll need to enable **PIN code request**. See "PIN code request" immediately preceding this section.

- 1 Press **Menu 4-7-6-2** (Settings > Security settings > Access codes > Change PIN code).
- 2 After a brief pause, you're prompted to enter the current PIN code. Enter the PIN code and press **OK**.
- 3 You're prompted to enter the new PIN code. Enter the new PIN code and press **OK**.
- 4 You're prompted to re-enter the new PIN code for verification. Enter the new PIN code again and press **OK**.

A message appears in the screen confirming your PIN code has been changed.

The PIN2 Code

The PIN2 code is required for features such as Fixed dialing. If you enter an incorrect PIN2 code three times in succession, the PIN2 code is blocked and you'll have to enter the PUK2 code.



Note: The original PIN2 code must be obtained from your wireless provider.

CHANGE YOUR PIN2 CODE

- 1 Press **Menu 4-7-6-3** (Settings > Security settings > Access codes > Change PIN2 code). You're prompted to enter the current PIN2 code.
- 2 Enter the current PIN2 code and press **OK**. You're prompted to enter the new PIN2 code.
- 3 Enter the new PIN2 code and press **OK**. You're asked to verify the new PIN2 code by entering it again.
- 4 Enter the new PIN2 code again and press **OK**. A message appears in the screen confirming you've changed the PIN2 code.

Personal unblocking key (PUK) codes

PUK and PUK2 codes are used to restore blocked PIN and PIN2 codes. Both PUK and PUK2 codes are eight characters in length and cannot be changed. PUK and PUK2 codes must be obtained from your wireless provider.



Important: If you enter an incorrect PUK or PUK2 code 10 times in succession, the message **SIM rejected** appears in the screen and the SIM card can no longer be used. You must contact your wireless provider for a new SIM card.

• USE CALL RESTRICTIONS

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



Note: If you turn fixed dialing on and don't have any numbers in the fixed dialing list, you can't make any calls!



Note: When calls are restricted, calls may be possible to emergency numbers (for example, 911 or other official emergency number). However, one-key dialing may not operate depending on the type of restriction you chose.

11

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 the phone number you want to restrict, then press **OK**.
- 6 Enter a name to go with the restricted phone number, 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).

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:

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.

- 4 Press **OK**.

About your restriction password

Contact your service provider for the restriction password.

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 new password, then press **OK**.

• SET UP A CLOSED USER GROUP

11

This network service specifies the group of people 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 (such as 911 or other official emergency number).

Turn on closed user group

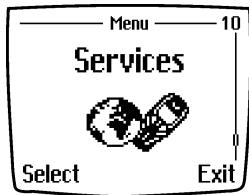
- 1 Press Menu 4-7-4 (Settings > Security settings > Closed user group).
- 2 Scroll to **On**, enter the group number, then press **Select**.

Turn off closed user group

- 1 Press Menu 4-7-4 (Settings > Security settings > Closed user group).
- 2 Scroll to **Off**, then press **OK**.

12 Your wireless Internet browser

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



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



Note: Check with your wireless provider for WAP service availability. WAP pages are designed using Wireless Markup Language (WML), xHTML. Since web pages are designed using Hyper Text Mark-up Language (HTML), all web pages cannot be viewed from your phone.

12

• NOTES ON WIRELESS INTERNET ACCESS

This section gives a brief overview of wireless 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 the Internet 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," or "WAP card."

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, text messaging and dial-up connections for making digital data calls.

- For information about how to track time spent online, see "Check data calls" on page 59.
- For information about sending messages via GPRS, see "Choose other message settings" on page 74.
- For information about dial-up connections, refer to "GPRS dial-up connections" on page 159.
- For availability, pricing, and subscription to GPRS services, contact your service provider.

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The service provider's role

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

• SIGN ON TO THE INTERNET

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

- 1 Press **Menu 10 (Services)**.
Home appears highlighted.
- 2 Press **Select**.

Your phone connects to the Internet and to your service provider's home page. If you see the message **Check service settings**, the phone may not be set up for browsing. Contact your service provider to make sure that your phone is configured properly.

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• 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.

Choice	What it does
Settings	Provides options for changing connection settings, appearance settings, and authority certificates.
Go to address	Accepts an address you enter.
Clear 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 WIRELESS INTERNET

Since your phone's screen is much smaller than a computer screen, WAP 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

SCROLL AND SELECTION KEYS

Use the selection keys and scroll key to browse the WAP site and highlight items on the WAP page.



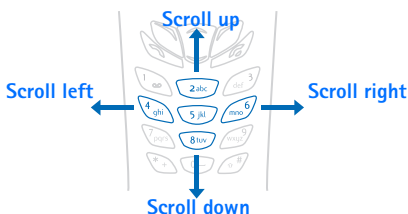
To select a highlighted item, press  or .

NUMERIC KEYS

Set the phone to use the numeric keys for browsing.

- 1 Press Menu 10-4 (Services> Settings).
- 2 Press Select and scroll to Appearance settings.
- 3 Press Select twice and scroll to Numeric keys.
- 4 Press Select.

- To select a highlighted item, press  or 5.
- To enter letters and numbers, press the keys  to .
- To enter special characters, press the  key.



Examples of wireless Internet sites

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

Header line (1): shows the page currently active.

Inactive link (2): appears as an underlined word.

Active link (3): appears as a highlighted word.

Use  or  to scroll through the list of links.

Options (4): Press Options to go to the site's menu and/or browser page.

Back (5): Press Back to return to the previous page.



Data entry field (6): A box with bold outline appears when you need to enter information. In this example, you can enter your city to receive the local weather forecast.

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Find Weather

Enter City

Enter Zip

Options Back

• 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 WHILE BROWSING

You can add up to 25 bookmarks.

- 1 Press Menu 10-1 (Services > Home), then press Options.
- 2 Scroll to **Bookmarks**, then press Select.
- 3 Press **Options**.
- 4 Scroll to **New bookmark**, then press Select.
- 5 Enter address, then press **OK**.
- 6 Enter a title, then press **OK**.

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• DISCONNECT FROM THE INTERNET

To close your connection, simply press  twice. The Start screen appears when you're disconnected. To keep the browser open while using other phone features, see "Set up an automatic connection" on page 129.

• SECURITY ISSUES

Be sure to clear the cache memory

The information or services you access with the WAP browser are temporarily saved in the cache memory of the phone.

If you tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use.

CLEAR THE CACHE

Press Menu 10-6 (Services>Clear cache).

When the cache is cleared, a confirmation message appears.

CLEAR THE CACHE WHILE BROWSING

- 1 Press Options.
- 2 Scroll to Clear 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.

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 CERTIFICATES

- 1 Press Menu 10 (Services).
- 2 Scroll to Settings, then press Select.
- 3 Scroll to Certificates, then press Select.

• NOTES ABOUT GPRS

When connecting to the Internet, you are making a data connection. 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.

	Appears in the left upper corner of the screen, indicating an active GPRS connection when you are using the WAP browser. If you chose the "always online" setting, this icon also appears in the left lower corner of the screen indicating a continuous GPRS connection.
	Indicates that circuit switched (CS) or voice calls are not possible when using GPRS for a data call.
	Indicates that the GPRS connection has been interrupted by a voice call.

Set up an automatic connection

If the network supports an automatic connection, you can choose to have the GPRS context created as soon as you turn your phone on. The connection stays on in the background all the time, as long as you have network coverage.

You can take advantage of this continuous connection when browsing the Internet. When you are finished browsing, the connection stays active for quick access the next time you need to download information.

You can choose one of the following options from the **Services** settings menu:

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

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

	• Press to return to the Start screen if you have selected Always online • The GPRS connection remains in the background.
	• Press to end the GPRS connection if you have selected When needed
	• Press twice to return to the Start screen if you have selected When needed
	• Press and hold to end browsing and disconnect from GPRS if you have selected When needed



Note: Some GPRS setups may use different keys than shown above. Check with your service provider for details.

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 page and want to make a call, you can select **Use number**. Your phone then searches the information on the WAP page 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 Internet, you can end your data connection and then make an emergency call.

- 1 To close your Internet connection and return to the Start screen, simply press  twice.
- 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 .

13 Your personal digital assistant

Your Nokia 6590i phone has many useful features for organizing your everyday life, including a calendar, to-do list, and alarm clock. In this chapter, you'll learn how to use your phone as a digital assistant.

• USE THE ALARM CLOCK



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

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 the phone is off.

Set the alarm clock

- 1 Press Menu 6-1 (Organizer > Alarm clock).
- 2 Enter the alarm time in hh:mm format.
- 3 Press OK.
- 4 Select either **am** or **pm** and press Select.



Note: Step 4 is necessary only in the 12-hour 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 1 minute without pressing a key, it stops for 10 minutes, and then sounds again.

PHONE OFF

The phone switches itself on at alarm time, and then the alarm sounds. If you press **Stop**, the phone displays **Switch the phone on?** Press **Yes** to keep it on or **No** to switch it off.

Turn off the alarm clock

- 1 Press Menu 6-1 (Organizer > Alarm clock).
- 2 Scroll to Off and press Select.

• USE THE CALENDAR



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

The calendar keeps track of reminders, calls you need to make, meetings, and birthdays. It can even sound an alarm when it's time for you to make a call, go to a meeting, or celebrate a birthday.

Open the Calendar

At the Start screen, press Menu 6-2 (Organizer - Calendar). After a brief pause, the Monthly view appears in the screen with the current date highlighted by a black box. The Monthly view provides an overview of the selected month and weeks. It also allows you to jump to a specific date. Any days that appear highlighted in bold font contain calendar notes such as a meeting or reminder.



Monthly view

Set the date

- 1 While in the Monthly view screen press Options.
- 2 Scroll to Settings and press Select.
Set the date appears highlighted.

- 3 Press **Select**.

The date appears in mm-dd-yyyy format (for English. Date format for other languages may vary.)

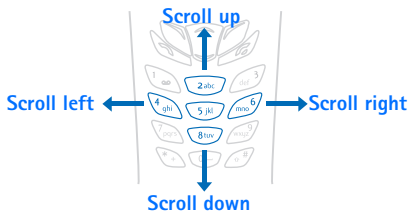
- 4 Enter the date and press **OK**.

Set the date format

- 1 While in the Monthly view screen, press **Options**.
- 2 Scroll to **Settings** and press **Select**.
- 3 Scroll to **Date format** and press **Select**.
- 4 Scroll to the date format you want and press **Select**.

Use four-way scrolling

You can move the cursor in some calendar views using the 2, 4, 6, and 8 keys, similar to a joystick.



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Jump to a date

- 1 Press Menu 6-2 (Organizer - Calendar). After a brief pause, the Monthly view appears in the screen.
- 2 Press **Options**, scroll to **Go to date**, and press **Select**.
- 3 Enter the date (for example 12/15/2002) and press **OK**. The Monthly view appears in the screen with the "jump date" highlighted.



Make a note for a specific date

You can choose from four types of notes; **Meeting**, **Call**, **Birthday**, and **Memo**. Your phone asks for further information depending on which note you choose. You also have the option to set an alarm for any note that you select.

- 1 Jump to a date as outlined in the previous section.
- 2 From the Monthly view (with the jump date highlighted), press **Options**.
- 3 Scroll to **Make a note**, and press **Select**.
- 4 Scroll to one of the following note types and press **Select**.



Meeting



Call



Birthday



Memo

- 5 Enter your note, press **Options**, scroll to **Save**, and press **Select**.
- For a **Meeting** note, you're prompted to enter a subject, a start and end time.
 - For a **Call** note, you're prompted to enter a phone number, a name, and the time.
 - For a **Birthday** note, you're prompted to enter the person's name, and year of birth.
 - For a **Memo** note, you're prompted to enter a subject for the memo.
 - Each of the note types gives you the option of setting an alarm.

13

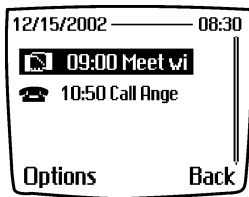
View calendar notes – the Day view

After you've created some calendar notes, you can view them as follows:

- 1 At the Start screen, press **Menu 6-2** (Organizer – Calendar). After a brief pause, the Monthly view appears in the screen with the current date highlighted. Any dates that contain calendar notes will be in bold font.
- 2 Jump, or scroll to the date containing the notes you wish to view.
- 3 Press **Options**, scroll to **View day**, and press **Select**. Any notes you have for the day will appear in a list format.

Options while viewing the notes list

- 1 Press **Options** while viewing the day's notes to display the options listed in the following table.
- 2 Scroll to an option. Press **Select** to activate the option or enter its submenu.



Calendar note options

View	View the full note
Make a note	Make another note for the selected date
*Erase	Erase the note
*Edit	Edit the note
*Move	Move the note to another date on your calendar
*Repeat	Enable the note to recur on a regular basis (daily, weekly, bi-weekly, monthly, and yearly)
Go to date	Jump to another date on your calendar
*Send note	Send the note to another device via Infrared or SMS as text or in vCal format
*Copy	Copy the note. You can then "paste" the note to another date
*Settings	Set the date and time, date and time format, choose the separator, the day each week starts, and whether you want your notes to auto-erase after a specified time

* Indicates an option that is available only while viewing the body of a note.

Send a Calendar note to another device

SEND A NOTE VIA INFRARED OR SMS



Note: If sending via IR (infrared), ensure the other device is set to receive data via IR. For more information on enabling the receiving device's IR, refer to the user guide for the receiving device.

- 1 At the Start screen, press **Menu 6-2** (Organizer - Calendar). After a brief pause, the Monthly view appears in the screen.
- 2 Jump, or scroll to the date containing the note you wish to send.



Tip: Any days containing notes will be in bold font.

- 3 Press **Options**, scroll to **View day**, and press **Select**.
- 4 Scroll to the note you wish to send and press **Options**.
- 5 Scroll to **Send note** and press **Select**.
- 6 Scroll to **Via IR**, **As note**, or **As text msg.**, and press **Select**.
- 7 If you selected **Send via IR**, align the infrared ports of both devices and press **Select**. The note is sent.
- 8 If you selected **Send as note**, enter the number for the recipient (or press **Find** to retrieve a number from your Phone book), and press **OK**. The note is sent.
If you selected **Send as text**, the note appears in the screen.
- 9 Press **Options**, scroll to **Send**, and press **Select**.
- 10 Enter the number for the recipient (or press **Find** to retrieve a number from your Phone book), and press **OK**. The note is sent.

RECEIVE CALENDAR NOTES FROM ANOTHER DEVICE

When you receive a Calendar note, your phone displays **Calendar note received**. You can then save the note in your Calendar and set an alarm for any date and time.

VIEW RECEIVED CALENDAR NOTES

- 1 When your phone displays **Calendar note received**, press **Show**.
- 2 The text of your note appears in the screen. Use the scroll key to view the entire message, if necessary.

SAVE RECEIVED CALENDAR NOTES

- 1 After viewing the **Calendar note**, press **Options**.
- 2 Scroll to **Save** and press **Select**.

DISCARD VIEWED CALENDAR NOTES

- 1 After viewing the **Calendar note**, press **Options**.
- 2 Scroll to **Discard** and press **Select**.

• MAKE A TO-DO LIST

You can keep track of your tasks with the to-do list feature. You may be able to save up to 30 notes, depending on their length.



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



Note: This feature shares memory space with other features. See "Memory use" on page 18 for more information. To-do notes are not related to specific dates.

Add a to-do note

- 1 At the Start screen, press **Menu 6-3 (Organizer - To-do list)**.
- 2 After a brief pause, press **Options**. If this is your first time to use the to-do list, **Add** is highlighted.
- 3 Press **Select**, enter your to-do note and press **Options**.
- 4 Scroll to **Save** and press **Select**.
- 5 Scroll to **High**, **Medium**, or **Low** priority and press **Select**. The to-do note is saved.

Choose other to-do options

When you view a to-do note, you have the following options:

To-do note options

View	View the selected note
Add	Create a note
Erase	Delete a note
Edit	Modify the contents of a note
Edit priority	Change the priority of a note. Your choices are high, medium, and low
Go to priority	View notes for a certain priority level, such as all of your High priority notes
Save to calend.	Save the to-do note as a calendar note
Send as text	Send the note as a text message to another phone

• USE THE CALCULATOR



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

- At the Start screen, press **Menu 7-1** (Extras > Calculator). After a brief pause, the calculator screen appears in the screen.
- Enter the first number in your calculation.
 - Press  to enter a decimal point
 - Press **Clear** to erase any mistakes
 - Press  to cycle through and select the add (+), subtract (-), multiply (*), and divide (/) characters.
- Enter the second number in your calculation.

- 4 Press **Options**. The following list of options appear in the screen. Use the scroll key to highlight an option. Press **Select** to confirm.

Calculator options

Equals	Displays the sum of your calculation
Add	Adds numbers in the calculation
Subtract	Subtracts numbers in the calculation
Multiply	Multiplies numbers in the calculation
Divide	Divides numbers in the calculation
Square	Squares numbers in the calculation
Square root	Square root of the numbers in the calculation
Change sign	Return to the previous screen to select another sign for the calculation (plus sign, minus sign, etc.)

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- 5 Press **Select** to complete the calculation as selected in the calculator options. The sum of your calculation appears in the screen.



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

Use currency conversion

EDIT THE EXCHANGE RATE

- 1 At the Start screen, press **Menu 7-1** (Calculator). After a brief pause, the calculator screen appears.
- 2 Press **Options**.
Exchange rate appears.
- 3 Press **Select** and scroll to one of the following options.

Foreign units converted to home units	Enter the number of home units it takes to make one unit of foreign currency
Home units converted to foreign units	Enter the number of foreign units it takes to make one unit of your home currency

- 4 Press **Select** to edit your choice.

Enter the exchange rate and press **OK**. The exchange rate is saved.

MAKE CONVERSIONS

You can convert foreign currency to domestic, or vice versa directly from the Start screen.

- 1 At the Start screen, enter a currency amount to convert.
 2 Press **Options**, scroll to one of the following and press **Select**:

To home	Converts foreign currency to domestic currency
To foreign	Converts domestic currency to foreign currency



Note: If you haven't done so already, you're prompted to enter the exchange rate.



Tip: To enter a decimal, press .

- 3 Enter the exchange rate and press **OK**. The converted amount appears in the screen.

• USE THE VOICE RECORDER

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



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

Record a memo

- 1 Press **Menu 7-2 (Extras > Voice recorder)**.
Record appears highlighted.
- 2 To begin recording, scroll to **Record**, then press **Select**.
- 3 Clearly state your note. When you are finished, press **Stop**.
The **Title:** box appears on the screen with the word **Recording**.
- 4 Key in a name for the recording and press **OK** to save it.
Recording saved appears on the screen.

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

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

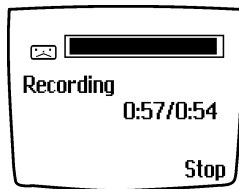
Record a phone conversation



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

- 1 Place the call.
- 2 While in the call, press **Options**.
- 3 Scroll to **Record**, then press **Select**.

While you are recording, the screen shows the amount of time left, and you hear a soft beep every five seconds.



- 4 When you are finished, press **Stop**.
- 5 **Recording saved** appears on the screen, and the conversation is automatically saved under the name "Recording." You can edit the name later.

AUDIO CUES

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

- Start tone: plays when recording begins.
- Recording tone: plays every 5 seconds while the conversation is being recorded.
- Ending tone: signals the end of the recording.

Listen to or edit a memo

- 1 To listen to or edit a recorded memo, press **Menu 7-2-2 (Extras > Voice recorder > Recordings list)**. A list of recordings appears.
- 2 Scroll to the recording you want then press **Options**.
A list of options appears:
 - Select **Playback** to listen to the memo.
 - Select **Edit title** to change the name of a memo. Key in the new name and press **OK**.
 - Select **Erase** to delete the memo.

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Set an alarm

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



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

- 1 Press **Menu 7-2-2 (Extras > Voice recorder > Recordings list)**.
- 2 Press **Options**. Scroll to **Add alarm** and press **Select**.
- 3 Enter the date and time for the alarm, then press **OK**.
Alarm added appears on the screen.

Notes about voice memos

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

• USE THE COUNTDOWN TIMER

The countdown timer is like an egg-timer, or the timer on your microwave oven. You can enter a specified time, and when the time runs out, your phone sounds an alarm.



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



Note: The countdown timer only works when the phone is on. Once you turn off your phone, the timer is no longer active.

Set the countdown timer

- 1 Press Menu 7-4 (Extras > Countdown timer), then press **Select**.
- 2 Enter two digits for hours, two digits for minutes, then press **OK**.
- 3 Enter a note, if needed, then press **OK**.
Timer running appears, and the  icon appears in the Start screen.

Change the time

After you've set the timer, you can change the time.

- 1 Press Menu 7-4 (Extras > Countdown timer).
- 2 Scroll to **Change time**, then press **Select**.
- 3 Enter the time, then press **OK**.

- 4 Save the current note, or enter a new note and press **OK**.

Stop the timer

When the time runs out, the phone sounds an alarm, and flashes the light on the screen.

- When the alarm sounds, press **OK** stop the timer.
- After 30 seconds the timer alert expires automatically.

BEFORE THE ALARM SOUNDS

- 1 Press **Menu 7-4 (Extras > Countdown timer)**, then press **Select**.
- 2 Scroll to **Stop timer**, then press **Select**.
Timer stopped appears on the screen.

• USE THE STOPWATCH

Your phone has a stopwatch that can be used to track time at sporting events or other occasions. The stopwatch displays time in hours, minutes, seconds and fractions of a second. 00:00:00:0



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

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Measure split time

You can use the split time function at a long distance race when you need to pace yourself.

- 1 Press **Menu 7-5 (Extras > Stopwatch)**.
- 2 Scroll to **Split timing**, then press **Select**.
- 3 Press **Start**.
- 4 Press **Split** to take an intermediate time.

The clock continues to run and the split time appears below the running time. If you split the time more than once, the new measured time appears at the top of the list. Press  or  to see up to 20 previous measured times.

- 5 When you're finished timing, press **Stop**, then press **Options**.
- 6 **Save** appears highlighted.
If you want to save the time, see "Save the time" on page 147.
- 7 Scroll up to **Start** and press **Select** to continue,
OR
Scroll down to **Reset** and press **Select** to set the stopwatch to 0.

Measure lap time

You can use the lap time function when you want to track how long it takes to complete each cycle or lap.

- 1 Press **Menu 7-5 (Extras > Stopwatch)**.
- 2 Scroll to **Lap timing**, then press **Select**.
- 3 Press **Start**.

The running time appears on the screen.

- 4 Press **Lap** to take a lap time.

The clock stops, then starts immediately from zero and the lap time appears below the running time.

If you take more than one lap time, the new measured time appears at the top of the list.

Press  or  to see up to 20 previous measured times.

- 5 When you're finished timing, press **Stop**, then press **Options**.
- 6 **Save** appears highlighted.
If you want to save the time, see "Save the time" below.
- 7 Scroll up to **Start** and press **Select** to continue.
OR
Scroll down to **Reset** and press **Select** to set the stopwatch to 0.

Save the time

- 1 Press **Stop** to end timing, then press **Options**.
Save appears highlighted.
- 2 Press **Select**, then enter a name for the measurement. If a name is not entered, the total time is used as a name.
- 3 Press **OK** to store the time in the stopwatch memory.

Choose other stopwatch options

You can choose the following options when using the Stopwatch.

Choice	What it does
Show last time	Allows you to view the last measured time.
View times	Allows you to browse the saved times.
Erase times	Allows you to delete the saved times. You can delete the saved times one by one or all at once.



Tip: If you press  and return to the Start screen, the stopwatch continues to run in the background. The  icon appears at the top left part of the screen while the stopwatch runs in the background.

You can return to the Stopwatch menu by taking the following steps:

- 1 Press **Menu 7-5 (Extras > Stopwatch)**, scroll to **Continue**.
- 2 Press **Select**.



Note: Using the stopwatch when performing other operations with your phone consumes the battery and the phone's operating time can be reduced.

• SHARE BUSINESS CARDS

Your phone can send or receive electronic business cards consisting of a name, up to five phone numbers, and other details such as e-mail address, web address, street address, or a short note. You can save received business cards to your Phone book.

There are two ways to send a business card:

- You can send the information via IR. See "Your phone and other devices" on page 154.
- You can send the business card as a short text message.

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 Enter or recall the phone number to which you want to send the business card.
- 7 Press **OK**.



Note: For information on receiving business cards, see "Receive a business card from another device" on page 156.

14 Fun and games

• FM RADIO



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



Note: You must have a headset connected to the phone before using the radio.

Turn the radio on

- 1 Connect a headset.
- 2 Press **Menu** 5.
Radio on appears.
- 3 Press **Options**.

Set a frequency

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

DIRECT ENTRY

- 1 Scroll to **Set frequency** and press **Select**.
- 2 Enter the frequency number and press **OK**.
For example, to enter 100.7, press 1,0,0,7. The cursor automatically moves to the correct places and enters the numbers.
After you press **OK**, **Frequency set** appears briefly, followed by the frequency number.

MANUAL SEARCH

- 1 Scroll to **Manual tuning** and press **Select**.
- 2 Press  or  until you hear the station you want.
- 3 Press **OK**.
Frequency set appears.

AUTOMATIC TUNING

- 1 Scroll to **Auto-tuning** and press **Select**.
- 2 Press  or .
The radio automatically seeks and stops on the next active frequency.
- 3 Press **OK**.
Frequency set appears, followed by the frequency number.

SAVE FREQUENCIES IN THE PHONE'S MEMORY

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

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

RECALL A STORED FREQUENCY

Press **Menu 5**.

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

CHANGE CHANNELS

With the keypad

While in the Radio menu, press  or  to select another station.
OR

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

With the headset

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

Handle calls while listening to the radio

INCOMING CALLS

When you get an incoming call, the radio is muted. Answer the call as normal (See "Make and answer calls" on page 24.) When you end the call, the radio automatically turns on again, with the same frequency and volume setting as set before the call.

OUTGOING CALLS

All functions for placing outgoing calls are available, including voice dialing (see "Make and answer calls" on page 24 and "Use voice dialing" on page 66.) If you need to recall a number from the Phone book, the radio remains on until you press  to make the call. If you're using voice dialing, the radio is muted as soon as you press and hold **Names**. When you end the call, the radio automatically turns on again, with the frequency and volume settings unchanged.



Important: You can not turn on the radio during a call.

INCOMING MESSAGES

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

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• GAME RULES

Challenge yourself or a friend to the four fun games in your phone.



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

Start a new game

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

Adjust game settings

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

• NOKIA SUGAR BOWL

Play the role of head coach. Select the plays for your team and watch the action unfold. Choose from a quick match, full game, or scenario.

• SNAKE II

Feed the snake with as many goodies as possible and watch it grow. Use keys , , , and  to turn the snake toward food. The longer the snake's tail grows, the higher your score. You can choose to have a clear field, or select from five different mazes. If the snake runs into its own tail or the surrounding wall, the game is over.

Start a two-player game

Snake can be played as a two-player game using the IR ports of two phones.

Before starting a two-player game, make sure that the IR ports of the two devices are pointing at each other and that the IR connection is activated. Both players need to start the same game on their phones.

• SPACE IMPACT

Use your weapons to survive alien attacks. When you defeat all the enemies, you progress to the next level. Use  and  to move up and down,  and  to move left and right. Key  or  fires the main weapons, and key  or  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  to launch the ball. Hold down the  key to get more power. Use keys  and  to control the flippers. Use the keys  and  to nudge the table — but not too much or the game will tilt.

15 Advanced features

• YOUR PHONE AND OTHER DEVICES

Your phone can send and receive certain types of data by way of the infrared (IR) port. This transfer is wireless, so you don't need a cable or additional software.

To connect using IR, the device with which you connect must be IrDA (Infrared Data Association) compliant. Transmission and reception must be to or from a compatible phone or device (for example, another phone, computer, or hand-held device).

Your Nokia phone is a Class 1 Laser Product.



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

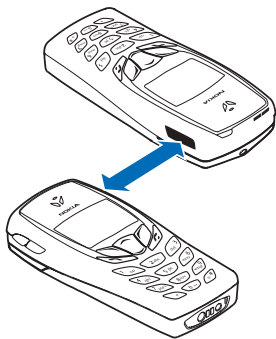


Warning: Do not point the IR beam at anyone's eyes or allow it to interfere with other IR devices.

• PREPARE THE DEVICES FOR IR CONNECTION

Before you can exchange information, you need to follow these steps:

- 1 Clear any obstructions between the two devices.
- 2 Point the IR ports at each other.
- 3 Make sure the two devices are no more than 3 feet apart.



• INFRARED BASICS

You can use IR to send and receive Phone book entries (business cards) and calendar notes.

- 1 Make sure the two devices are ready for the IR connection.
- 2 To receive information on your phone, press **Menu 9 (Infrared)** and then press **Select**.
- 3 Have the user of the sending device select the desired IR function to start data transfer.

If data transfer is not started within 30 seconds, the connection is cancelled and will have to be restarted.



Note: You do not have to "turn off" the IR function in your phone. After data transfer, the IR connection automatically drops after about 30 seconds.

Check the status of an IR connection

The status of an IR connection is indicated by **IR---**.

- When **IR---** is displayed continuously, there is an IR connection between your phone and the other device.
- When **IR---** blinks, your phone is trying to establish a connection with the other device or a connection has been lost.
- When **IR---** is not displayed, no IR connection exists.

• SEND AND RECEIVE INFORMATION

You can transmit information in your phone by IR using the industry-standard v.card format. You can send business cards (v.card) and calendar notes (v.cal) to another phone, to a PC running the appropriate software, or to other IR-equipped hand-held devices.

Send a business card to another device

First, make sure that the other phone or device is set to receive data via its IR port. Refer to the user guide for the receiving device for more information on setting up IR communications.

- 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 infrared** and press **Select**.



Note: If you have more than one number or text information to send, choose **Primary no.** or **All details**, then press **Select**.

The phone sends the business card through its IR port.

Receive a business card from another device

You can receive business cards from another compatible phone. The user of the other phone or device sends you a card as described in the previous section.

- 1 Point the IR ports at each other.
- 2 Press **Menu 9 (Infrared)**.
- 3 When you see the message **Business card received**, press **Show**.
- 4 Press **Options**, scroll to **Save** or **Discard**, then press **OK**.
 - If you press **Save**, you see the confirmation message **Business card saved**.
 - If you press **Discard**, you see the question **Discard business card?** Press **OK** to delete the card.



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

Send calendar notes to another device

First, make sure that the other phone or device is set to receive data via its IR port. Refer to the user guide for the receiving device for more information on setting up IR communications.

- 1 Select the calendar note you want to send, then press **Options**.
- 2 Scroll to **Send note**, then press **Select**.
- 3 Scroll to **Send via IR**, then press **Select**.

The phone sends the note to the other device.

Receive calendar notes from another device

You can receive calendar from another compatible phone. The user of the other phone or device sends you a card as described in the previous section.

- 1 Point the IR ports at each other.
- 2 Press **Menu 9 (Infrared)**.
- 3 When you see the message **Calendar note received**, press **Show**.
- 4 Press **Options**, scroll to **Save** or **Discard**, then press **OK**.
 - If you press **Save**, you see the confirmation message **Calendar note saved**.
 - If you press **Discard**, you see the question **Discard calendar note?** Press **OK** to delete the note.



Caution: If you press  at any time before saving the calendar note, the calendar note will be deleted!

• PC CONNECTIVITY

You can make a serial connection between your Nokia phone and your Infrared-equipped laptop or desktop PC. Once you establish this IR connection, you can access your phone's information from your PC, or use your phone as a wireless modem.



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

Nokia PC Suite

You can use the various components of Nokia PC Suite to do the following:

- Make a backup copy of personal data such as contacts and calendar information from your phone to another phone or PC (Content Copier).



Note: Be sure to turn off Automatic keyguard when using PC suite.

If you already have a compatible Nokia phone, you can copy your names and numbers to the Nokia 6590i phone with Content Copier. Compatible phones include the Nokia 5190, 6190, 8290, 8390, 8890, 7160, 7190, 3320 and 3360 phones.

- Edit Phone book names and numbers, profiles, and settings via your PC's keyboard (Phone editor).
- Create new ringing tones and send them to your phone (PC Composer).
- Synchronize your phone's contacts and calendar items with other personal information managers.
- Compose new graphics and transfer them from your PC to your phone (PC Graphics).

Instructions for PC Suite installation and setup, as well as the PC/PDA connectivity guide are available as part of the software download.

Wireless modem setup

You can use your Nokia phone as a wireless modem with your laptop computer, giving you access to the Internet (for e-mail and Web browsing) or corporate networks wherever you are.

For more information on wireless modem setup, please refer to the PC/PDA connectivity guide. This document can be downloaded from the Nokia website.

Download Nokia PC Suite and Modem Setup

Both of these applications are provided free of charge, and are available for download from:

<http://www.nokia.com/us>

• GPRS DIAL-UP CONNECTIONS

You can use your Nokia phone as a wireless modem with your PC or laptop computer. For more information, see the PC/PDA connectivity guide. This document can be downloaded from the Nokia website.



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



Note: Before you can use GPRS for dial-up connections you must first subscribe to the GPRS network service. Contact your service provider for details on pricing and availability.

Some service providers may have already set up information for your GPRS dial-up connection.

16 Reference information

• BATTERY STATEMENTS

Charging and Discharging

Your phone is powered by a rechargeable battery.

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

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

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

Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused, a fully charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge; allow it to cool down or warm up first.

Use the battery only for its intended purpose.

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

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip, or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery), for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 59°F and 77°F. A phone with a hot

or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire!

Dispose of batteries according to local regulations (for example, recycling). Do not dispose of as household waste.

• IMPORTANT SAFETY INFORMATION

This section provides additional safety information. A brief overview of safety can be found in "Safety first" on page 1.

Traffic safety

Do not use a hand-held 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.

When connecting the phone or any accessory to another device, read the associated user guide first and obtain detailed safety instructions.

Electronic devices

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

PACEMAKERS

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

- Should always keep the phone more than 6 inches (20 cm) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

HEARING AIDS

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

Other medical devices

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (for example, electronic fuel injection systems, electronic antiskid/antilock braking systems, electronic

speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

POSTED FACILITIES

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

Potentially explosive atmospheres

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

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

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

Vehicles

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

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

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

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- 1 If the phone is not on, switch it on. Check for adequate signal strength.



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

- 2 Press  as many times as needed (for example, to exit a call, to exit a menu, etc.) to clear the screen 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 (Keyguard, fixed dialing, restrict calls, and so on), you may first need to turn those features off before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all of 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* terminate 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.

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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 1.13 W/kg, and when worn on the body, as described in this user guide, is 1.02 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of **<http://www.fcc.gov/oet/fccid>** after searching on FCC ID LJP NSM-9.

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**.

• 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 allow you to enjoy this product for many years.

When using your phone, battery, charger, or any accessory:

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

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

• 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 service provider.



A FEW PRACTICAL RULES FOR ACCESSORY OPERATION

- Keep all accessories out of the 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.

• 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 has a lithium ion (Li-Ion) battery. Dispose of used batteries in accordance with any local regulations.

The tables shown in this section provide information about the battery that is available for your phone, charging times with the Rapid Travel Charger (ACP-8), the Standard Travel Charger (ACP-7), the Travel Charger (ACP-12), talk times, and standby times. Consult your service provider for more information.

Charging Times



Note: The charging times listed below are approximate.

Battery option	ACP-7 Charger	ACP-8 Charger	ACP-12 Charger
BLB-2 Li-ion Battery 750 mAh	3 hours	2 hours	1 hour, 30 min

Standby and Talk Times

Battery option	Talk time	Standby time
BLB-2 Li-ion Battery 750 mAh	Up to 5 hours	up to 16 days (radio off) up to 20 hours (radio on)



Note: The above times are approximate. Battery operation times vary according to signal conditions, network parameters that are set by the service provider, temperature, and the way you use your phone.

• 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. Also, refer to the accessories brochure that was included in your sales package for the entire line of Nokia Original Accessories.

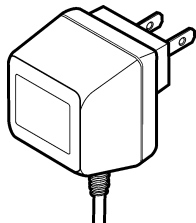


Note: When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since prolonged maintenance charging of the battery could shorten its life span. If left unused, a fully charged battery will discharge itself over time.

Standard Travel Charger (ACP-7)

This 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.

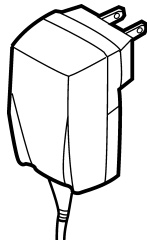


Note: If the battery is completely empty, you cannot use the phone until it has enough charge to operate.

Rapid Travel Charger (ACP-8)

This is a lightweight (100 g) and durable AC charger. Calls can be made during charging, even with a fully discharged battery.

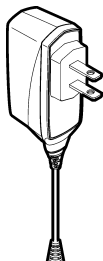
To use the Rapid Travel Charger (ACP-8U), plug it into a standard 120 V or 220 V AC wall outlet, and connect the lead from the charger to the base of your phone.



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 170.

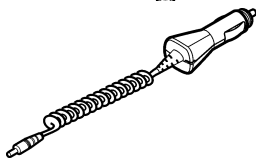
Travel Charger (ACP-12)

This charger is especially suitable for active travelers because it works with multiple voltages. Plug it into a standard 120V AC wall outlet, and connect the lead from the charger to the base of your phone



Rapid Cigarette Lighter Charger (LCH-9)

You can charge your phone's battery from your vehicle battery by using the Rapid Cigarette Lighter Charger.

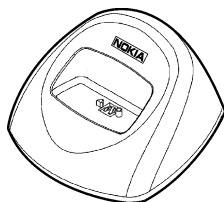


Calls are possible during charging. A green light indicates that the charger is ready for charging (when not charging) or finished charging (if it has been charging). The battery charging times are the same as those for the Rapid Travel Charger (ACP-8U). The input voltage range is from 11 to 32V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger 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.

Desktop Stand (DCD-1)

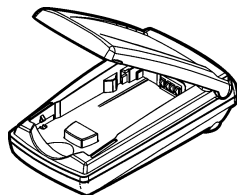
Used together with the Standard Travel Charger (ACP-7U) or the Rapid Travel Charger (ACP-8U), the Desktop Charging Stand is an stylish choice when you need your phone close at hand, always ready for calls.

This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.



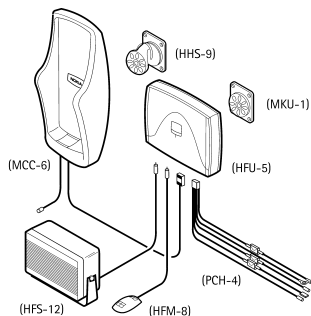
Spare Battery Charger (DDC-1)

Lightweight and stylish, this charger provides a convenient way to charge your spare battery. Compatible with Rapid Travel Charger (ACP-8U) or Standard Battery Charger (ACP-7U).



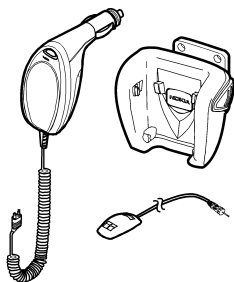
Full Car Kit (CARK-132)

Full Car Kit providing charging, handsfree functionality and external antenna connectivity via integrated inductive coupler in the cradle.



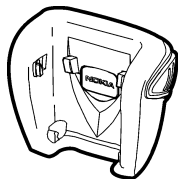
Express Car Kit (CARK-130)

This compact charger provides full handsfree use by simply plugging into the cigarette lighter. The mobile holder holds the phone securely. Includes PPH-1 HFM-8, MBD-10, and HHS-5.



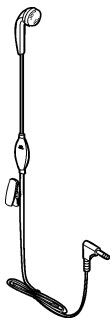
Mobile holder (MBD-10)

Holds phone securely in place while driving or during charging. Can be used with Rapid Cigarette Lighter Charger (LCH-9).



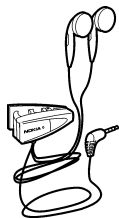
Headset Kit (HDC-5)

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 Phone" on page 31 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 for more information.



HDD-1 Dual headset

This dual headset combines comfortable, handsfree phone operation with the pleasure of enjoying music from the FM radio feature of the Nokia 6590i phone.

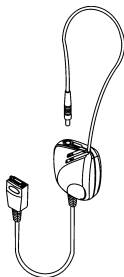


Loopset LPS-3

With the Nokia Loopset, people who use a T-coil equipped hearing aid have the freedom to talk on a digital mobile phone. The loopset goes around your neck - so it can be worn comfortably and discreetly.

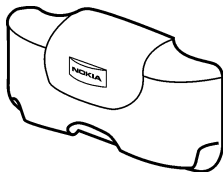
Also available:

Phone Adapter for TTY/TDD (HDA-9) and Headsets (HDE-2) and boom headset (HDB-5)



Leather carry case CSH-3

Luxurious leather case protects your phone and has a convenient, integrated belt clip.



Leather carry case CSL-18

Handsome leather case helps protect your phone and allows for easy keypad access. The clip attaches to your belt for convenience.



Microfiber carry case CSM-10

Similar to the CSL-18, but made of Microfiber and available in several colors.



17 Technical information

Weight	3.0 oz.
Size	Length 97mm
	Width 43 mm
	Depth 21 mm
Transmitting power	GSM 850, 2 W nominal
	GSM 1900, 1 W nominal
Operating voltage	3.6V DC
	12V DC for car kit
Networks	GSM 850 and 1900
Frequency band	GSM 850
	824 to 849 MHz (TX)
	869 to 894 MHz (RX)
	GSM1900
	1850 to 1910 MHz (TX)
	1930 to 1990 MHz (RX)
Memory locations	Up to 500 contacts with multiple phone numbers and text entes per contact. Check with your SIM provider or carrier for information about SIM card and memory capacity.

18 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.
	The phone line has changed	Press and hold  to select the correct line - line 1 or line 2.

Problem	Possible cause	Possible solution
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 63.
	The voice mail number you have saved is incorrect.	Call your wireless service provider.
	You have forgotten your password or are entering it incorrectly.	

19 Frequently asked questions (FAQ)

This section lists and answers the questions that you most frequently ask. Where necessary, the answers refer you to the appropriate section within this guide.



Some of the answers tell you to use menu shortcuts. For a complete listing of these shortcuts, refer to "List of menu shortcuts" on page 28.

Q. How do I lock my phone?

- A. Press **Menu** 4-7-1, press **Select**, enter your PIN code, and press **OK**. Scroll to **On** and press **OK**.

Refer to "About Access codes" on page 116 for details.

Q. How do I unlock my phone?

- A. Press **Menu** 4-7-1, press **Select**, enter your PIN code, and press **OK**. Scroll to **Off** and press **OK**.

Refer to "About Access codes" on page 116 for details.

Q. What is my lock code?

- A. The lock code enables you to lock your phone, thus preventing someone else from using it. The default lock code is 1234 (depending on your service provider). However, you should change this code *immediately*.

Refer to "About Access codes" on page 116 for details.

Q. What is my security code?

- A. The default security code is 12345. However, it is suggested that you change this code *immediately*. Certain features can be used *only* after the correct security code has been successfully entered.

Refer to see "The security code" on page 116 for details.

Q. How do I lock the keypad?

A. To lock the keypad:

- Press Menu .

Refer to "Lock the keypad (Keyguard)" on page 115 for details.

Q. How do I unlock the keypad?

A. To unlock the keypad:

- Press Unlock and .

Refer to "Lock the keypad (Keyguard)" on page 115 for details.

Q. How do I make the ringing louder?

Refer to "Profiles" on page 94 for details.

Q. How do I change the ringing tone?

Refer to "Profiles" on page 94 for details.

Q. How do I store my voice mailbox number?

A. Press Menu 01-11- 2. Enter your voice mailbox number, then press OK. This number can be up to 32 digits long.

This voice mailbox number is valid unless your phone number changes. If your phone number changes, you will have to save a new voice mailbox number. Refer to "Save the voice mailbox number" on page 64 for details.

Q. How do I call my voice mailbox number (retrieve voice messages)?

When your phone alerts you to new messages, press **Show** and follow the prompts. If you'd rather listen later, press **Exit**.

To listen to your voice messages at a later time, perform one of the following actions:

- 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.

See "Use voice features" on page 63. for details.

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

- A. Turn off your phone, then remove the battery from the back of the phone. Read the sticker that is inside and you will find, after the word *Model*, your phone's model number.

Q. How do I redial the last-dialed number?

- A. Press  twice.

See "Redial the last-dialed number" on page 25.

Q. How do I assign a key to 1-touch dialing?

- A. Press **Names**, scroll to **1-touch dialing**, and press **Select**.

Scroll to the key number you want to assign a 1-touch dial number and press **Assign**.

Find the Phone book entry that you want to assign to this key and press **Select**. Refer to "Use 1-touch dialing" on page 112 for details.

Q. How do I find out how much memory the phone has?

- A. Press **Names**, scroll to **Settings** and press **Select**. Then scroll to **Memory status** and press **Select**. Select **Phone** or **SIM card** and press **Select**. A message appears stating the amount of memory free and used.

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

- A. Turn your phone off, open the rear sliding cover, then remove the battery. Your phone's IMEI number is printed on the sticker inside the battery cover, under the first bar code. Or press   06 .

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

- A. The contrast of your phone's screen is fixed and *cannot* be changed.

- Q. Why doesn't the battery last as long as the user guide says it will?**
- A. A battery's life greatly depends on how the battery is charged. Be sure to charge the battery for 24 hours so it will reach a 100% charge. See "Important battery information" on page 17.

20 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.

Manufactured or sold under one or more of the following US Patents.
Asterisk (*) indicates design patents pending.

4868846	4969192	5001372	5101175	5212834	5230091
5241583	5311179	5331638	5331638	5335362	5384782
5384782	5390223	5396657	5400949	5416435	5442521
5444816	5446364	5479476	5487084	5519885	5526366
5553125	5557639	5581244	5625274	5640395	5664053
5677620	5692032	5699406	5699482	5701392	5729534
5729541	5754976	5760568	5782646	5805301	5827082
5835889	5839101	5844884	5845219	5857151	5862178
5870683	5887266	5889770	5892475	5898925	5907823
5914796	5915440	5917868	5920826	5926138	5926769
5930233	5946651	5956625	5956633	5960389	5963901
5966374	5966378	5970059	5987137	5991716	5991857
6005857	6011853	6014573	6026161	6028567	6029128
6038238	6043760	6047196	6049796	6055439	6060193
6069923	6081534	6084962	6088746	6094587	6097964
6112099	6115617	6118775	6122498	6128322	6128509
6138091	6144243	6144676	6148209	6151507	6163609
6164547	6167248	6170073	6185295	6188909	6195338
6199035	6201876	6240076	6240079	6249584	6266330
6292668	6295286	6310609	6324412	29159800*	29159801*
29159803*	29159804*	29159805*	29159806*		

Appendix A

Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones.

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Phone: (202) 785-0081

Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense---keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need.

When it comes to the use of wireless phones, *safety is your most important call.*

Wireless Phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember.

- 1 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
- 2 When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
- 3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
- 4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the

call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

- 5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
- 6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.
- 7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
- 9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
- 10 Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

For more information, please call 1-888-901-SAFE.

For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

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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.nrpb.org.uk/>

July 18, 2001 For updates: <http://www.fda.gov/cdrh/phones>

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