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Nokia 1260

User Guide Draft

Phone notes

	Notes	Where to get information
My number		Wireless service provider
Voice mail number		
Wireless service provider's customer care		
Model number	1260	Type label. Located under the battery.
Phone type	NKW-1, NKW-1X	
ESN (Electronic serial number)		

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The wireless phone described in this guide is approved for use on the TDMA and AMPS networks.

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The information contained in this user guide was written for the Nokia 1260 phone. Nokia operates a policy of continuous 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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1 Safety first

Read these simple guidelines before you use your phone. Failure to comply with these guidelines may be dangerous or illegal. See “Important safety information” on page98 for detailed information.

Switch off where prohibited

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

Road safety comes first

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

Interference

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

Switch off in hospitals

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

Switch off in aircraft

Wireless devices can cause interference in aircraft.

Switch off when refueling

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

Switch off near blasting

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

Use sensibly

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

Qualified service

Only qualified personnel may install or repair phone equipment.

Accessories and batteries

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

Water-resistance

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

Calling

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

Emergency calls

Ensure the phone is switched on and in service. Press as many times as needed (for example, to exit a call, to exit a menu) to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.

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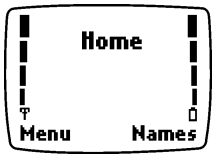
2 Welcome and quick guide



Congratulations on your purchase of a Nokia mobile phone, a new tool for the mobile information society.

Before you begin, you need to prepare your phone by charging the battery and learning how to maintain it. This chapter tells you how to set up your phone. You will also find useful information about:

- How to use this guide
- How to understand network services
- How to contact Nokia

• GET THE MOST OUT OF THIS GUIDE

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

Understand the terms

This guide provides instructions for certain actions.

- Press means to briefly press and release a key. For example, *press* 0 means press the zero key for 1 second and release.
- Press and hold means to press and hold a key for 1 to 3 seconds (depending on the feature being used), then release the key.
- Press Menu means to press (the selection key), located below the word Menu on the phone's screen.
- Highlighted means that an option on the screen is enclosed in a black box. When an option is highlighted, it can be activated by pressing .

Follow graphic clues

This guide uses the following icons to alert you to important information.

Tip: Provides information about a quick way or an alternate method for performing an action.

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

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

Caution: Warns you when you may lose information.

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

Learn 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	Indicates one of the following items: • The word or phrase appears on the phone's screen. • Special text such as **Notes** and **Warnings**.
bold and blue	Indicates one of the following items: • The word is an address on the World Wide Web. • A definition for the word or phrase appears in the glossary.
italic	Italics indicate emphasis. Pay close attention to any information in italics.

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Access alternate formats

To request a user guide in one of the following alternate formats, call the Nokia Customer Care Center:

- Braille
- Large print
- Audiocassette
- E-text (3.5-inch disk in Microsoft Word or WordPerfect)

Nokia Customer Care Center, USA	TTY/TDD Users Only
Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619	Tel: 1-800-24-NOKIA (1-888-246-6542)

Note: Alternate format user guides are available in English.

Look for updates

From time to time, Nokia may update this user guide to reflect changes or corrections. The latest version may be available at the Nokia site on the internet at

www.nokia.com

An interactive user guide that provides step-by-step instructions for any of your phone features is available at

www.nokiahowto.com

• 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.

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

Network services for your Nokia phone include:

- Voice mail and voice privacy
- Call waiting, call forwarding and caller ID
- Text and picture messages
- Ability to send your own number

Sign up with a service provider

Before you can use any network services, you must sign up with a wireless service provider. Your service provider will supply descriptions of special features and instructions for using their services.

• 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* if you would like. You will receive tips and tricks on using your phone, accessory information, and special offers.

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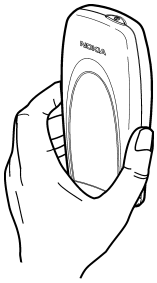
• UNDERSTAND YOUR PHONE

This section offers an illustrated view of your phone to help familiarize you with its keypad, connection port and power key.

Use the antenna

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



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

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

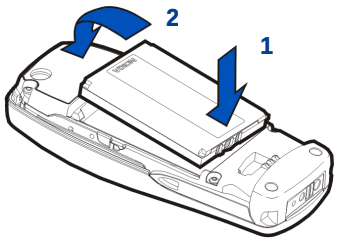
Install and remove the battery

This section tells you how to install and remove the battery. You will need to remove the battery when replacing it, or to view the phone's label (located under the battery).

INSTALL THE BATTERY

1 Place the battery in the compartment with the label side facing up and the golden contact area of the battery aligned with the contact prongs inside the phone.

2 Press down on the battery until it snaps into place.



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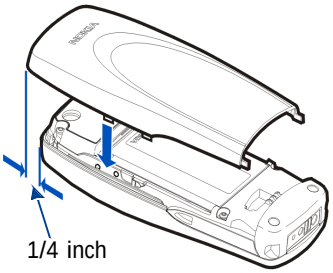
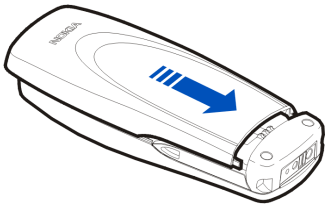
3 Align the cover over the back of the phone, placing the end of the cover approximately 1/4 inch past the end of the phone. Lower the back cover onto the phone.



4 Press down slightly and slide the cover until it locks into place.

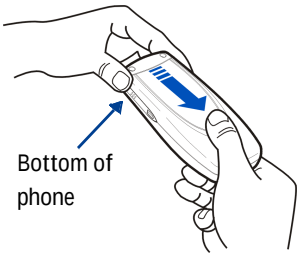


REMOVE THE BATTERY

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

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

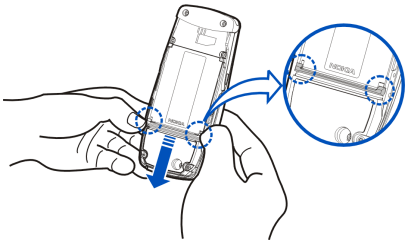
1 Hold the phone with the back facing you. At the bottom corners of the phone, press the battery cover with your thumb and forefinger.



2 Place the thumb of your other hand in the grove, approximately 1 inch from the top of the phone. Apply pressure with the thumb and slide the back cover toward you to release it, then remove it.

3 Look for the battery latch that runs along the end of the battery nearest the top of the phone.

4 Place your thumbs on the corners of the latch and press away from the battery.

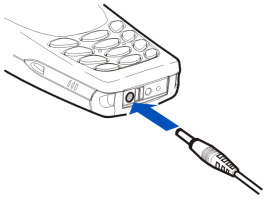


5 Once the battery is released from the latch, it will lift slightly so that it can be removed from the phone.

Warning: Use only your hands to remove the battery. Do not use any objects that may damage the phone or the battery.

Charge the battery

Before you begin, you need to prepare your phone by charging the battery.



1 Plug the charger into a standard wall outlet, then connect the lead from the charger to the bottom of the phone.

2 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 Disconnect the charger from the phone.

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IMPORTANT BATTERY INFORMATION

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

- With your phone turned off, charge your new battery for three hours before its first use. Use the battery until it is fully discharged. Repeat this procedure twice for a total of three charging cycles.
- Battery operation time may be less than the estimated times during the first charges. This condition is normal.
- If the battery is fully discharged, the scrolling bars may not appear immediately when charging.
- After the first charge, you can make and receive calls during the charging cycle, but the calls interrupt the charge. When the phone call ends, the charge will resume.
- The bars on the screen stop scrolling and remain constant when the phone is charged. If you leave the phone connected to the charger, the battery receives an additional charge.

Note: The battery will accept a “trickle charge” for an additional two hours. See “Reference information” on page96 for more information on batteries.

- Charging time depends on the charger and battery used. See “Batteries” on page106 for charging, talk, and standby times.

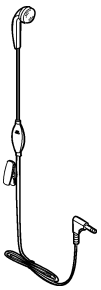
PROLONG BATTERY LIFE

For good operation times with NiMH batteries, discharge the battery from time to time by leaving your phone switched on until it turns itself off. Ignore any messages to recharge your battery and let the battery completely discharge.

Important: Do not attempt to discharge the battery by any other means.

• SET UP YOUR HEADSET

Your phone is compatible with the HDC-5, HDE-2 and HDB-5 headsets. The headset provides convenient handsfree use of the phone.

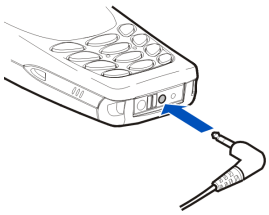


Connect the headset

1 Plug the headset jack into the bottom of your phone.

2 Put the round ear plug into one ear.

Use the headset



With the headset connected, you can make and answer calls as usual.

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.

Note: You can set your phone to answer automatically when the headset is connected. See “Automatic answer” on page64 for more information.

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• GET STARTED WITH THE QUICK GUIDE

Make a call	Enter phone number, press .
Answer a call	Press or **Answer**.
Answer with call waiting	Press .
End a call	Press .
Silence a call	Press .
Redial	Press twice.
Adjust call volume	During a call, press for louder or for softer.
Use the in-call menu	In a call, press **Options**.
Use 1-touch dialing	Press and hold one of keys 2 through 9.
Save a name and number	Enter a number, press **Save**, then enter a name and press **OK**.
Retrieve a name/number	Press **Names**, select **Find**.
Retrieve a name/number during a call	Press **Options**, scroll **New call**, press **Select**, press **Find**, enter first letter of the name.
Check voice mail	Press and hold or call your voice mailbox number.
Send a text message	Press **Menu 1-1**. Write the message. Press **Options** (**Send** will be the first option), then press **Select**, enter the recipient's number, press **Send**.
Send an e-mail message	Press **Menu 1-2**. Enter the recipient's address, press **OK**, enter the subject, press **OK**, write the message, press **Options**, scroll to **Send** then press **Select**. (You may need to enter the gateway number your service provider gave you.)
Read new message	Press **Read**. If you have more than one message, scroll to the one you want, then press **Read** again.
Reply to a message	Press **Options**, scroll to **Reply**, then press **Select**.
Reply to an E-mail message	When reading the message, press **Options**, scroll to **Reply**, then press **Select**.
Send a business card	Retrieve a name from the phone book, press **Options**, select **Send bus. card**, enter the recipient's number, press **Send**.

- GET HELP

Find your phone's label

When you call Nokia Customer Care Center or your service provider, you will need to provide specific information about your phone. This information is recorded on the phone's type label. The type label is located under the battery inside the phone's back cover. It contains the model and serial numbers as well as other important information about your phone. Please do not remove or deface the label.

Contact Nokia

If you have a question and have already checked the Troubleshooting section (see page121), we recommend that you have the following information available before contacting the Nokia Customer Care Center or the service provider:

- Your phone's model number
- **ESN** (Electronic serial number – located on the label under the battery)
- Your billing address ZIP code
- The phone or accessory in question

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

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Contact your service provider

You may want to save your service provider's customer support telephone number into your phone. This will let you easily contact your provider if you have questions or issues with your phone service.

Receive accessibility information

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. Nokia maintains an internet site that is dedicated to accessibility solutions. For more information about phone features, accessories and other Nokia products designed with your needs in mind, visit the web site at

www.nokiaaccessibility.com

ACCESSIBLE FEATURES

This Nokia phone has many accessible features, including:

- Nibs under the five 5 jkl key for quick reference to the keypad
- Tactile feedback when you press a key
- Ability to send and receive short text and e-mail messages
- Convenience of 1-touch dialing
- Customizable ring tones

LPS-3 MOBILE INDUCTIVE LOOPSET

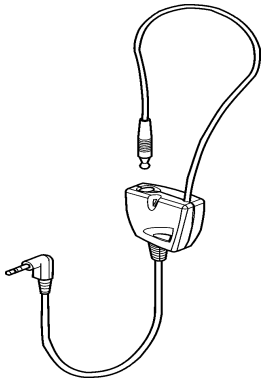
The LPS-3 Loopset is a Nokia accessory designed to make the phone more accessible to hearing-aid users. The loopset gives hearing-impaired users clear access to digital telephony for the first time. It allows people with T-coil equipped hearing aids to make and receive calls without noise interference.

To activate the Loopset, see "Accessory settings" on page63.

Note: The Loopset is sold as an accessory to the phone.

HOW THE LOOPSET WORKS

The LPS-3 Loopset uses inductive technology to transmit sound to a hearing aid equipped with a T-coil. The sound from the phone is amplified more efficiently and background noise is eliminated.



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 detailed instructions on using the loopset, refer to the booklet that comes with the LPS-3.

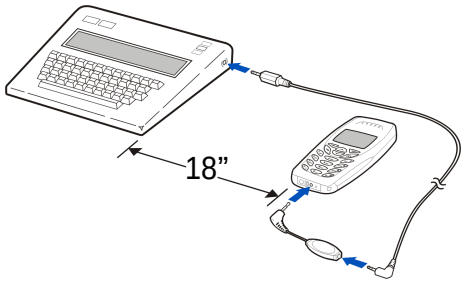
Set up the TTY/TDD profile

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

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

1 Connect the TTY/TDD via cable to the HDA-9 adapter.

2 Plug the HDA-9 adapter into the connector on the bottom of your phone, as shown in the illustration.



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3 Press Menu **4-4-4-1** (**Settings** > **Accessory settings** > **TTY/TDD** > Use TTY).

4 Scroll to Yes, then press Select.

NOTES ABOUT TTY/TDD CALLS

- The Nokia TTY/TDD Adapter (HDA-9) is for use with compatible TTY/TDD devices only. Check with the manufacturer of the TTY/TDD device to ensure that the connection is compatible.
- Check with the manufacturer of the TTY/TDD device for the connecting cable.
- TTY/TDD communications depend on network availability. Check with your service provider for availability and description of services.

MAKE A TTY/TDD CALL

Tip: Before making a TTY/TDD call with your Nokia phone, check the signal strength. See “Understand indicators and icons” on page21 for details.

1 From the Start screen, enter the number and press .

2 When the receiving party answers, begin typing your conversation on the TTY/TDD.

RECEIVE A TTY/TDD CALL

1 Make sure the TTY/TDD device is connected to your phone.

2 Press to answer the call, then type your responses on the TTY\TDD.

END A TTY/TDD CALL

Press

3 Basic operations

This section gives a brief introduction to the phone and shows quick steps for:

- Making and answering calls
- Adjusting the earpiece volume
- Navigating through menus
- Using menu shortcuts

You will also find information about the phone's icons and how to use in-phone help. The rest of this guide provides complete details on phone use.

• SWITCH YOUR PHONE ON OR OFF

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

Switch ON your phone

Press and hold the power key for 2 seconds.

Switch OFF your phone

Press and hold the power key.

Or, press the power key quickly. When **Switch off!** is highlighted on the screen, press **Select**.

• MAKE AND ANSWER CALLS

There are several ways to make and answer calls on your phone. Once learning about the basic methods, you will discover other tips throughout this guide when reading about the phone's features.

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Use the keypad

1 Enter the phone number, including area code if needed.

2 Press .

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.

Use the phone book

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

2 Press to make the call.

Tip: To skip ahead quickly in the list, press the number key that has the first letter of the name. You may have to press the key more than once to get to the correct letter.

Make a 1-touch dial call

Press and hold the key assigned to the number you wish to call.

To learn how to store a number for use with 1-touch dialing see “Assign a key to 1-touch dialing” on page77.

End a call

Press to end the call or cancel the call attempt.

Answer a call

When your phone rings, press . You can press any key to answer a call except the power key, end key, or the scroll keys.

Note: If Keyguard is active, the keypad will unlock when you have an incoming call.

Silence an incoming call

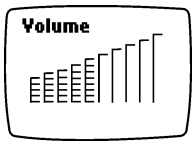
Press or **Silent** to mute the ringing of an incoming call.

Redial the last-dialed number

Press two times.

Adjust the earpiece volume

You can adjust the earpiece volume during a call by pressing the scroll keys located just below the screen.

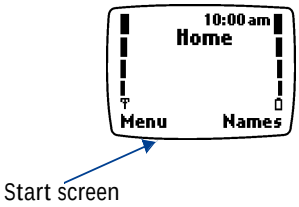


- Press the key to increase the volume.
- Press the key to decrease the volume.

• CHECK THE START SCREEN

When you switch on your phone, a welcome appears, then you see the Start screen.

The Start screen appears when the phone is idling or standing by.



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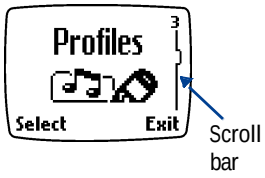
Understand the Scroll Bar

When you press Menu, a vertical **scroll bar** appears on the right side of the screen. This scroll bar has a tab which moves up or down to indicate your location in the menu.



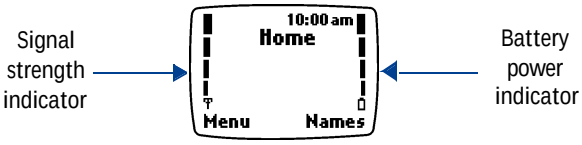
Understand indicators and icons

You have two types of identifiers on your phone: icons and indicators.

Indicators show the status of something. The phone uses three types of indicators: signal strength, battery power and handset volume.

Icons are graphical representations of a specific item or situation. For example, an icon appears when you have a voice message in your mailbox.

Indicators



1 Signal strength – shows the signal strength of the wireless network at your current location. The higher the bar, the stronger the signal.

2 Battery power – shows the battery charge level. The higher the bar, the more power in the battery.

Icons

Screen Icon	What it means
	Active call in progress.
	Silent has been selected as the current profile.
	The phone's keypad is locked to prevent any accidental key presses.
	One (or more) new voice messages waiting.
	One or more new text messages waiting. (If blinking, the text message memory is full.)
D	Digital service is available.
ABC abc	Standard text input mode for entering alpha characters. Press # to switch between uppercase and lowercase input.
ABC abc	Predictive text mode for quickly entering text messages. Press # to switch between uppercase and lowercase input.
123	123 mode. This icon appears when you press and hold # while entering text. You can now enter only numbers (not alpha characters). Press and hold # again to return to text entry mode.
?!£	Special character mode. This appears when you press * while entering text. Once the characters appear, you can select a special character by selecting Insert.
	Alarm clock is set.

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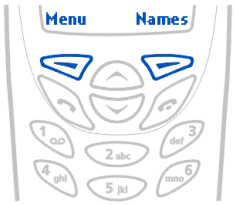
• USE THE SELECTION KEYS



The selection key allows you to select various phone options.

At the bottom of the Start screen, two options appear: **Menu** and **Names**. The selection keys are located just below these options.

The left selection key is located under **Menu**. The right selection key is located under **Names**.

When you press the left selection key at the Start screen, the menu item **Messages** appears. The text above the left selection key changes to **Select** and the text above the right selection key changes to **Exit**.

When you press the right selection key at the Start screen, options for the **Names** feature appear. The text above the left selection key changes to **Select** and the text above the right selection key changes to **Exit**.

• SCROLL KEYS

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

Note: The **Accessory settings** menu will not appear until after an accessory has been connected to the phone.

• CHECK IN-PHONE HELP

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 or to continue reading the text. Press Back to exit, or wait a few seconds to return to the current menu.

• BROWSE PHONE MENUS

A **menu** is a list of choices you can make to change settings on your phone or use various phone features. Each menu can contain several levels of submenus. You can use menus and submenus two ways: by scrolling or by using a shortcut. This guide uses the shortcut method when describing how to use the phone's features.

Scroll through menus

1 At the Start screen, press **Menu**, then scroll through the menus using the and keys.

2 Use the scroll and selection keys to navigate the submenus; press to return to the Start screen.

For example, when you see (**Menu > Profiles > Silent**) the scrolling method is: press **Menu,** scroll to **Profiles** and press **Select,** scroll to **Silent** and press **Options.**

Return to the previous menu level

You can return to the previous menu level by pressing the selection key labeled **Exit** or **Back**. You can return to the Start screen from any menu level by .

Use shortcuts

Menus and options are numbered so that you can quickly find your way to an option. The numbers appear in the top right corner of the screen and show your location in the menu.

1 Press **Menu**.

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

For example, to select the **Silent profile**, press **Menu 3-2-1**

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MENU TIPS

- You can scroll upward to quickly access the last option in a menu list
- You can return to the previous menu level by pressing **Back**.
- To exit a menu and return to the Start screen, press . If you leave a menu by pressing , you cancel any changes you made.
- Some menus may not appear. Ask your service provider for details.

Menu shortcuts

1 MESSAGES

Write message. 1-1
Write e-mail 1-2
Inbox 1-3
Outbox. 1-4
Archive 1-5
Erase all 1-6
Picture messages. 1-7
Voice messages 1-8
Listen to voice messages 1-8-1
Voice mailbox number 1-8-2

2 CALL LOG

Missed calls 2-1
Received calls 2-2
Dialed calls 2-3
Clear call lists 2-4
All 2-4-1
Missed 2-4-2

Received 2-4-3
Dialed 2-4-4
Call timers 2-5
Duration of last call. 2-5-1
Duration of all calls 2-5-2
Clear timers 2-5-3

3 PROFILES

Normal 3-1
Select 3-1-1
Customize 3-1-2
Ringing options 3-1-2-1
Ringing tone 3-1-2-2
Ringing volume 3-1-2-3
Message alert tone 3-1-2-4
Keypad tones 3-1-2-5
Warning tones 3-1-2-6
Profile name[1]
Silent 3-2
Select 3-2-1
Customize 3-2-2
Meeting 3-3
Select 3-3-1
Customize 3-3-2
Outdoor 3-4
Select 3-4-1
Customize 3-4-2
Pager. 3-5
Select 3-5-1
Customize 3-5-2

1 The Profile name option is available for Silent, Meeting, Outdoor and Pager. The Normal profile cannot be renamed.

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4 SETTINGS

Time settings 4-1
- Alarm clock 4-1-1
  - On 4-1-1-1
  - Off 4-1-1-2
- Clock 4-1-2
  - Show/Hide clock 4-1-2-1
  - Set the time 4-1-2-2
  - Time format 4-1-2-3
- Auto update of time 4-1-3

Call settings 4-2
- Automatic redial 4-2-1
- Current call timer 4-2-2

Phone settings 4-3
- Language 4-3-1
- Touch tones 4-3-2
  - Manual touch tones 4-3-2-1
  - Touch tone length 4-3-2-2
- Welcome note 4-3-3
- Restore factory settings 4-3-4

Accessory settings[1] 4-4
- Headset 4-4-1
- Handsfree 4-4-2
- Loopset 4-4-3

Security settings 4-5
- Call restrictions 4-5-1
- Change security code 4-5-2

Network services 4-6
- Voice privacy 4-6-1
- Call forwarding 4-6-2
- Call waiting 4-6-3
- Send own caller ID 4-6-4

1 The Accessory settings menu will not appear until after an accessory has been connected to the phone.

Network feature setting 4-6-5
Own number selection 4-6-6

5 SYSTEM

Automatic. 5-1
Manual 5-2
New search. 5-3

6 GAMES

Snake II. 6-1
Space Impact 6-2
Pairs II. 6-3
Settings 6-4

7 PREPAID

Check account balance 7-1
Add money to account 7-2
Call customer service 7-3
Save access phone numbers 7-4
Balance phone number 7-4-1
Replenish phone number 7-4-2
Customer service phone number . . . 7-4-3
Expiration date. 7-5

Note: The Prepaid menu is visible only when Prepaid service is available in your network and/or activated on your account. Please contact your service provider for more information on Prepaid services.

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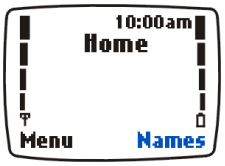
• PHONE BOOK MENU

For access to the phone book and its menus:

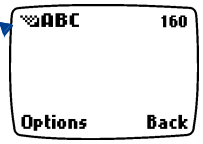


- Switch back to the Start screen.
- Press **Names**.

These options are available:

Find
Add new
Erase all
Options
    Phone book view
        Name list
        Name+number
        Name only
    Memory status
1-touch dialing

4 Text entry



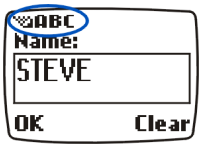
There are two ways to enter letters and numbers into your phone:

- Standard text input - for making entries in the phone book.
- Predictive text input - for writing text messages, picture messages, and e-mails. For more detail, see “Write with predictive text” on page34.

• STANDARD TEXT INPUT

Standard text input is used when entering text into information prompts. You can use this method for all text entry, but predictive text input is the faster method for writing messages.

Enter letters (ABC mode)



When you add new names to the phone book, your phone automatically switches to the ABC mode and displays the ABC icon.

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 STEVE:

Press	7 pqrs	7 pqrs	7 pqrs	7 pqrs	S
Press	8 tuv				T
Press	3 def	3 def			E
Press	8 tuv	8 tuv	8 tuv		V
Press	3 def	3 def			E

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Enter numbers (123 mode)

To enter numbers:

1 Press and hold # to switch to **123 mode**. Press the appropriate number key to enter a number.

OR

While in ABC mode, press and hold the corresponding number key until the number appears.

If you make a mistake, press (**Clear**) to erase that character.

2 To return to the ABC mode, press and hold # again for two seconds.

ERASE MISTAKES

If you make a mistake, press **Clear** as needed to erase one or more characters. Press and hold **Clear** to erase the entire field of characters.

CHANGE FROM CAPITAL (UPPERCASE) LETTERS

To switch between capital (uppercase) and lowercase letters, press #.

The ABC icon in the upper left corner of the screen switches to abc, indicating that you can now enter lowercase letters.

To switch back to capital letters again, press #.

• ENTER SPACES, PUNCTUATION AND SPECIAL CHARACTERS

Depending on the selected display language, the following characters may be available when entering characters from the keypad:

Key	Characters
1	**. , ' ? ! @ ~ / " - 1**
2	**A B C 2**
3	**D E F 3**
4	**G H I 4**
5	**J K L 5**
6	**M N O 6**
7	**P Q R S 7**

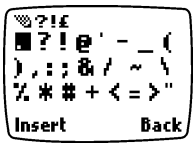
Key	Characters
8	**T U V 8**
9	**W X Y Z 9**
0	Enters an empty space or **0**.
*	Special characters
#	Changes letter case; long press toggles between text input mode and number input mode
⌒	Moves cursor to the left of character.
⌒	Moves cursor to the right of character.

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

- To enter a space, press 0 once.
- To enter punctuation, press 1 repeatedly until the character you want appears.

Use special characters

While entering text, press (or *press and hold*, if predictive text is on) * to display special characters. Press * again to cycle through all characters:



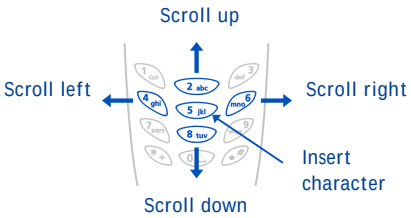
.	?	!	@	‘	-	_	(
)	,	:	;	&	/	~	\
%	*	#	+	<	=	>	“
£	$	¥	¤	§	¡	¿	

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

Note: The order and availability of special characters may vary depending on your service provider.

Use four-way scrolling

Navigate special characters using the 2, 4, 6, and 8 keys much as you would a joystick. Once a character is highlighted press 5 jkl to insert the character into your message.



Use symbols in names and numbers

- To enter a symbol while adding a name to the phone book, press *.
- To add a special character for creating a number string in the number box, press *. See “Set touch tone strings” on page78.

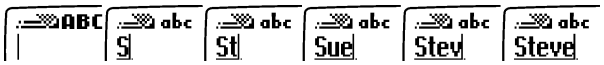
• WRITE WITH PREDICTIVE TEXT

Predictive text input allows you to write messages much faster than the standard text method. 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.

Understand predictive text input

To write Steve with the English dictionary selected, press:

7 pqrs (for S) 8 tuv (for t) 3 def (for e) 8 tuv (for v) 3 def (for e)



The display shows the above words for each key pressed.

Since the displayed word changes after each key stroke, disregard the word until you have keyed in all the characters. If the finished word is not the one you wanted, press the * key until your word appears. If it does not appear you will have an option to spell your word using standard text input.

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

Turn on predictive text input

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

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Turn off predictive text input

1 While writing a text message, press Options.

2 **S**croll to Predictive text, then press Select.

3 Scroll to **Prediction off**, then press Select.
T9 prediction off appears.

Tip: **Press** # to turn predictive text on and off.

Save a word in the dictionary

If the word **Options** changes to **Spell**, the word you intended to write is not in the dictionary. You can add the word to predictive text.

1 Press **Spell** and enter the word(s) using standard text entry.

2 Press **OK** to save the word(s).

Enter numbers

1 To add a number to the message, press and hold # until 123 appears on the screen.

2 Enter the numbers you want, then press and hold # to return to the ABC method.

Note: You can also enter numbers from the **Options** menu (Insert number), or by a long press of the number key.

Enter punctuation and special characters

There are two ways to enter punctuation when using predictive text.

Press and hold * to access the special characters list. See “Use special characters” on page33 for more information.

You can also enter symbols from the **Options** menu:

1 From the message screen, press **Options**.

2 Scroll to **Insert symbol** and press **Select**.

3 Scroll to the symbol you want and press **Insert**.

Change the case

Predictive text uses sentence case, but you can manually change between upper and lower case by pressing #.

Tip: You can switch between uppercase and lowercase standard text input and uppercase and lowercase predictive text input by repeatedly pressing #.

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 0 to enter the word and a space.

Clear the screen

To clear the text screen, press and hold (**Clear**). You can also use the **Options** menu by selecting the **Clear text** option.

Delete information

To delete information when using predictive text, press (**Clear**). Press and hold the clear key to delete text more quickly.

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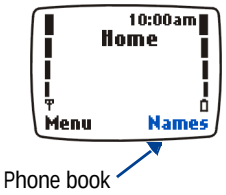
5 Phone book

Your phone includes a phone book that can store a maximum of 200 entries (names and associated phone numbers). In addition, the phone book can store an e-mail address for a name.



- An entry in the phone book can consist of a number only or a name and a number.
- You cannot enter the same name twice. If you try to save a name that is already in the phone book, the phone asks if you want to replace the existing name.

• USE PHONE BOOK MENUS

The phone book has several menus from which you can choose. These menus appear when you press **Names**. Use the scroll keys to move to the menu you want to use.

Find	Allows you to search for a specific entry.
Add new	Allows you to add a new contact to your phone book.
Erase all	Allows you to erase names and numbers one by one or all at once.
Options	Takes you to a new menu list which includes the phone book's memory status and scrolling view.
1-touch dialing	Allows you to assign up to eight keys for speed dialing.

• SAVE NAMES, NUMBERS AND E-MAIL ADDRESSES

For information on entering text, see “Standard text input” on page30.

Quickly save a name and number

This method is called quick save.

1 Enter the phone number using the keypad.

2 Press **Save**.

3 Enter a name and press **OK**.

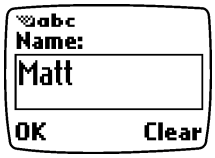
Save an entry using the phone book menu

1 Press **Names** to enter the phone book.

2 Scroll to **Add new** and press **Select**.

3 Enter a name and press **OK**.

4 Enter a number and press **OK**.



Save an e-mail address

Once you have added a contact to your phone book, you can add an e-mail address to that contact.

Note: E-mail addresses can only be added to existing contacts. For instance, you cannot enter an e-mail address until you have selected a name or number.

1 Find the name to which you want to add an e-mail address.

2 Press **Details**, then press **Options**.

3 Scroll to **E-mail address**, then press **Select**.

4 Enter the e-mail address, and press **OK**.

Important: If you have selected the **Name+number** phone book view, you will not need to press **Details**.

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• RECALL NAMES AND NUMBERS

1 At the Start screen, press **Names**.

2 Select **Find** and enter one or two letters of name you want to recall.

3 Press **OK**, then press to dial the number.

You may have to scroll to the appropriate entry in a list if you have stored names that are similar to each other.

Recall information with shortcuts

You may want to use some of these shortcuts, or alternate methods for recalling a number.

- Press **Names**, enter the first letter of the name, scroll to the name, and press to dial the number.
- At the Start screen, press the scroll keys to enter your list of names, scroll to the name you want to dial, and press .
- Press to access a list of your last ten dialed calls, scroll to the one you want to dial, then press again.

• EDIT A NAME OR NUMBER

You can edit a name, a number, or both.

1 Recall the name or number you wish to edit.

2 Press **Details**, then press **Options**.

3 Scroll to **Edit** and press **Select**.

4 Edit the name or number and press **OK**.

Important: If you have selected the **Name+number** phone book view, you will not need to press **Details**.

• ERASE NAMES AND NUMBERS

Erasing stored names and numbers removes them from your phone. Once you erase an item, you can restore it only by re-entering it.

Individual entries

1 Recall the phone book entry you want to erase.

2 Press **Details**, then press **Options**.

3 Scroll to **Erase**, and press **Select**.

The message **Erase?** appears.

4 Press **OK**.

Important: If you have selected the **Name+number** phone book view, you will not need to press **Details**.

Entire contents

1 Press **Names**, scroll to **Erase all,** and press **Select**.

2 Scroll to **Erase all** and press **Select**.

3 When you see the message **Are you sure?**, press **OK**.

4 Enter your security code and press **OK**.

For information on your security code, see “Understand the security code” on page82.

• CUSTOMIZE YOUR PHONE BOOK VIEW

You can change how the information in your phone book looks on your screen. There are three different ways to view your phone book. In all views, you can use the scroll keys to move up and down through the list of names.

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Choice	What it does
Name list	Displays three names on the screen at a time.
Name+number	Only one name and its corresponding number appears on the screen at a time.
Name only	Displays individual names only. You can view the corresponding phone number by pressing **Details** and then scrolling up or down.

Select your scrolling view

To change the way you view names and numbers in your phone book:

1 Press **Names**.

2 Scroll to **Options** and press **Select**.

3 At **Phone book view**, press **Select**.

4 Scroll to the view you want and press **Select**.

Important: If you have selected the **Name+number** phone book view, you will not need to press **Details** when working with phone book options.

• CHECK MEMORY STATUS

You can check how much of your phone book's memory is free and how much has been used.

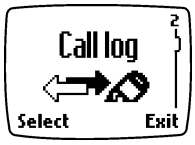
1 Press **Names** and scroll to **Options**

2 Press **Select**.

3 Scroll to **Memory status** and press **Select**.

6 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
- Received calls
- Dialed calls

Note: This function only works in digital networks and only when caller ID is enabled.

• CALL LOG OPTIONS

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

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

Choice	What it does
Call time	Shows the time when the call was connected. (You must first set the phone's clock)
Send message	Allows you to write a short text message to the person who called you or to whom you called.
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.
Erase	Allows you to delete the number from the call list.

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Choice	What it does
View number	Allows you to view the number.
Call	Dials the number from the call log.

• CHECK MISSED CALLS

If you do not answer a call, the message **Missed calls** appears on your phone's screen, along with the number of calls missed. Your phone stores the last ten numbers associated with calls you have missed.

To check missed calls:

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

2 The phone displays a list of the numbers of the calls you missed.

3 Press or to scroll through the list.

4 Press if you want to dial the number.

• CHECK RECEIVED CALLS

Your phone stores the last ten numbers associated with calls that you have answered. To check this list of numbers:

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

2 Scroll through the list of received numbers and highlight your selection.

3 Press if you want to dial the number.

- CHECK DIALED CALLS

Your phone stores the last ten numbers associated with calls that you have dialed. To check this list of numbers:

1 Press **Menu 2-3** (**Menu > Call log > Dialed calls**).

2 Scroll through the list of dialed numbers and highlight your selection.

3 Press ↘ if you want to dial the number.

Clear call lists

Your phone uses call lists to track numbers for incoming, outgoing, and missed calls. You can erase some or all of the numbers that appear in the call log.

Caution: You cannot undo this operation.

1 Press **Menu 2-4** (**Menu > Call log > Clear call lists**).

2 Use ⌃ or ⌄ to scroll through the options list.

The list includes: **All**, **Missed**, **Received**, and **Dialed**.

3 Stop at the appropriate option and press **Select**.

The **All** option clears every number in every list, whereas the other options clear only the numbers associated with that option. For example, the **Dialed** option clears only the numbers associated with calls you previously dialed.

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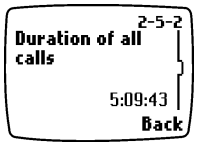
• USE CALL TIMERS

Your phone tracks the amount of time you spend on each call. To obtain information about time spent on phone calls:



1 Press Menu 2-5 (Menu > Call log > Call timers).

2 Scroll through the options described below:

Option	What it does
Duration of last call	Shows the call duration of the last call.
Duration of all calls	Shows the call duration of all calls that have been made and received since you reset the timers.
Clear timers	Clears all call timers for the currently selected phone number. Your phone includes separate timers for each number used.

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

Caution: If you select the **Clear timers** option, the action cannot be undone. If you use the call timers to log the amount of time spent on calls, you may want to record the information in the call timers before you clear them.

Clear call timers

1 Press **Menu 2-5-3** (**Menu > Call log > Call timers > Clear timers**). The Security code box appears.

2 Enter your security code and press **OK**.

For information on your security code, see “Understand the security code” on page82.

Turn on a current call timer

You can set your phone to show the running elapsed time while a call is active.

1 Press **Menu 4-2-2** (**Menu > Settings > Call settings > Current call timer**).

2 Scroll to **On** and press **Select**.

From this point on, the timer is active during each call you make or receive. The time appears on the phone’s screen.

3 After a call has ended, press any key on the phone’s keypad to clear the current call time from the screen.

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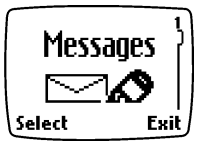
7 Messages

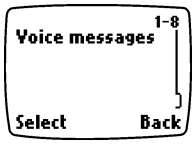


You can use mobile messages to keep in touch with friends, family and business associates. Your phone allows you to do the following:

- Voice mail
- Send and receive text messages
- Send and receive picture messages
- Communicate with e-mail

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

• VOICE MAIL



Voice mail provides a way for callers who miss you to leave a message that you can retrieve later. To use voice mail, you must sign up for the feature with your wireless service provider.

Check for messages

Your phone beeps when you receive a voice message. Also, the message **New voice message** appears on your phone's screen, along with the icon.

If you receive more than one voice mail message, your phone may show the number of messages that you have received. The wireless network provider determines the type of indication you will receive.

Note: To use voice mail, you need to learn the voice mail system's various greetings, passwords, and prompts. Your service provider can provide instructions.

Save the voice mailbox number

As part of your network's voice mail feature, your service provider gives you a voice mailbox phone number. Save this number in your phone to make getting your voice messages quick and convenient.

1 Press **Menu 1-8-2** (**Menu > Messages > Voice messages > Voice mailbox number**).

2 Enter your voice mailbox phone number.

3 Press **OK**.

Your voice mailbox number can be up to 32 digits long and is used until you change it. Therefore, if your phone number changes, the voice mail number will probably change also. For further information, contact your service provider.

Listen to your voice messages

The way you listen to your voice messages depends on your service provider. Call your service provider if you have any questions.

1 When your phone alerts you to new voice messages, press **Listen** and follow the instructions given on the phone.

2 If you'd rather listen to your messages later, press **Exit**.

3 To listen to your voice messages:

Press and hold .

OR

Press **Menu 1-8-1** (**Menu > Messages > Voice messages > Listen to voice messages**).

Follow the prompts to review your messages.

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• TEXT, E-MAIL AND PICTURE MESSAGES

Your phone is capable of a variety of messaging services including text messages (**SMS** or Short Message Service), picture messages, and e-mail messages. Messaging services are network dependent features. Consult your service provider for information.

Understand messaging

Message recipients: The phone to which you send a text message must support text messages. The recipient may not receive the SMS text message you send if the recipient's account is with a different service provider or of a different protocol.

Message length: The maximum length of a sent or received message is 160 characters. Your phone has space for several messages, depending on the length of each message. The maximum length of a message also may depend on the capabilities of the network from which the message originated.

Options when working with messages

There are several options available when working with text, picture and e-mail messages. The order and availability of options may vary depending on the messaging function and your service provider.

Option	Description
Send	Attempts to send the text message to the recipient.
Settings	Allows you to set **Urgent**, **Read receipt**, **Reply req.**, and **Callback no.** options for the message.
Save	Saves the message in the archive folder.
Clear text	Clears the text in the message editor.
Exit editor	Takes you back to the **Write message** menu.
Predictive text	Allows you to turn predictive text on and off.
Insert word	If predictive text (T9) is activated, you can manually spell a word and insert it into your message.

Insert number	Allows you to insert numbers into the message.
Insert symbol	Allows you to access the list of special characters.
Matches	Lists alternative word choices while using predictive text.
Details	Available when viewing a picture message. This option allows you to view the name and number of the sender.
Preview	Previews your picture message before sending.
Edit text	Allows you to add text to a picture message.
Erase	Allows you to erase a picture message.
Forward	Allows you to forward a picture message.
Use number	Allows you to use the number associated with a picture message.
Edit recipient	Allows you to edit the e-mail address.
Edit subject	Allows you to edit the subject of an e-mail message.

Tip: When writing messages, you can switch between uppercase and lowercase standard text input and uppercase and lowercase predictive text input by repeatedly pressing #.

Organize messages using folders

Your phone has folders for managing text messages. Text message folders are located under the **Messages** menu.

THE INBOX FOLDER

The inbox stores messages you receive. Messages remain in the inbox until you delete them or save them in the archive folder. You can forward or reply to messages in your inbox.

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THE OUTBOX FOLDER

The outbox stores messages you have written, sent, edited and forwarded. Messages in the outbox are not saved messages. As you send new messages, old messages will automatically be removed from the outbox. If you want to save a message you have sent, read the message while it is in the outbox and use the options menu to save it to the archive folder.

THE ARCHIVE FOLDER

The archive folder stores messages you have saved. You can save messages to the archive folder from the inbox and the outbox. You can reply to or forward saved messages.

ERASE MESSAGES FROM FOLDERS

You can erase all messages located within a specific folder.

1 Press **Menu 1-6** (**Menu > Messages > Erase all**).

2 Scroll to one of the following options, then press **Select**.

All read

Inbox

Archive

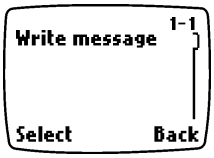
Outbox

3 Enter your security code, then press **OK**.

Note: For information on your security code, see “Understand the security code” on page82.

• TEXT MESSAGES

You can use your phone to send and receive short text messages if your service provider offers the message feature and if you subscribe to the service.



Write and send a text message

When writing text messages, use the predictive text method for faster text entry. For details, see “Write with predictive text” on page34.

1 Press **Menu**, select **Messages**, then select **Write message**.

The message screen appears.

2 Enter a message of up to 160 characters.

A counter in the upper right corner of the screen shows the number of characters remaining.

3 When you’ve finished writing the message, press **Options**, scroll to **Send**, then press **Select**.

4 Enter or recall the recipient’s phone number, then press **Send**.

Sending message 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.

Read a text message

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

1 Press **Read** to view the message.

2 Use the scroll keys to view the whole message, if necessary.

3 Once you’ve finished, press to return to the Start screen, or press **Options** for other choices, such as **Reply** or **Forward**.

When the phone displays **Message received**, pressing **Exit** moves the new message to the inbox, and returns you to the Start screen. To read the message later, press **Menu 1-3** (**Menu > Messages > Inbox**). If you have

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more than one new message, scroll to the message you want to view. Messages in the inbox are listed in the order they are received, with the most recent message listed first. Unread messages are indicated by .

Respond to a text message

There are many options available for working with text messages. For a list of options and their descriptions, see "Options when working with messages" on page49.

REPLY TO THE MESSAGE

1 When reading the message, press **Options**.

2 Scroll to **Reply**, then press **Select**.

3 Choose to reply **As message** or **As e-mail**, then press **Select**.

When replying as e-mail, see "Send an e-mail message" on page56. When replying as message, see "Write and send a text message" on page52.

FORWARD THE MESSAGE

1 When reading the message, press **Options**.

2 Scroll to **Forward**, then press **Select**.

3 Choose to forward **As message** or **As e-mail**, then press **Select**.

When forwarding as e-mail, see "Send an e-mail message" on page56. When forwarding as message, see "Write and send a text message" on page52.

SAVE A MESSAGE

1 When reading the message, press **Options**.

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

The message will be moved to the archive folder.

ERASE A MESSAGE

1 When reading the message, press **Options**.

2 Scroll to **Erase**, the press **Select**.

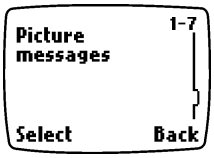
3 **Erase message?** appears, press **OK**.

WHEN YOUR MEMORY IS FULL

When your phone's message memory is full, one or more messages of the lowest priority are automatically deleted. When you receive an emergency message, messages may be deleted from any of your message folders.

If you have more messages waiting at the network, ✉ blinks on the Start screen. You can erase old messages to create space for new messages.

• PICTURE MESSAGES



Your phone offers five picture messages that you can use to send pictures and text to your friends and family. You can also save a new picture by replacing an existing picture. For possible message options, see "Options when working with messages" on page49.

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.

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

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.

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Send a picture message

1 Press **Menu 1-7** (**Menu > Messages > Picture Messages**).

2 Scroll to the picture you want to send. Press **Show**.

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

3 Press **Options** and scroll to **Edit text**. Add a text message to send with the picture.

After you enter the text, you have several options. To view a list of possible options, see "Options when working with messages" on page49.

4 To send the picture and message, press **Options**.

5 Scroll to **Send,** then press **Select**.

6 Enter or recall the recipient's phone number, then press **Send**.

Sending message appears.

PREVIEW A PICTURE MESSAGE BEFORE SENDING

After writing text for your picture message, you can preview the message before sending it.

1 Press **Options**.

2 Scroll to **Preview**, then press **Select**.

3 After viewing the message, press **Back**.

Receive a picture message

1 When your phone displays **Picture message received**, press **Show** and the message appears.

2 If the picture has a text message with it, scroll up or down to see the entire message.

Save a picture message

1 Press **Show** to view the message.

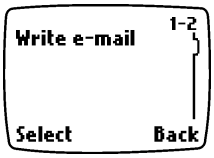
2 Press **Save**.

You will have the option to replace a current message.

3 Scroll to the picture you want to erase, then press **Replace**.

• E-MAIL MESSAGES

You can send e-mail up to 160 characters in length to anyone with an e-mail address.



- Messages sent to you by e-mail arrive as regular text messages. You can use all the options described earlier to save, reply to, or forward a message.
- Contact your service provider to get the e-mail address and gateway number for your phone, and for more information on using e-mail.

Send an e-mail message

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

Note: If you get a prompt asking you to enter your e-mail gateway number, you must obtain this number from your service provider.

2 At the prompt, enter your recipient's e-mail address or press **Find** to look through and select a saved e-mail address from your phone list. Press **OK**.

3 At the prompt, enter a subject for your e-mail message. (You are not required to enter a subject.) Press **OK** when you are finished.

Note: Predictive text is not available when entering an e-mail address or a subject line for your e-mail.

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4 A screen will appear allowing you to enter the text of your message.

Your total message, including the address and subject line, can be up to 160 characters. There is a running total of remaining characters in the top right corner of the screen.

5 After you finish entering the text of your e-mail, press **Options** and scroll to **Send**, then press **Select**.

Receive an e-mail message

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

To read the message, press **Read**.

When reading a received e-mail message, you can choose other options, such as **Reply** and **Forward**. See "Options when working with messages" on page49.

Edit an existing e-mail message

You can edit an e-mail message by replying to the message or forwarding it. You can edit messages from any folder.

Reply to an e-mail message

1 When reading the message, press **Options**.

2 Scroll to **Reply**, then press **Select**.

3 Choose to reply **As message** or **As e-mail**, then press **Select**.

When replying as e-mail, see "Send an e-mail message" on page56. When replying as message, see "Write and send a text message" on page52.

Forward an e-mail message

1 When reading the message, press **Options**.

2 Scroll to **Forward**, then press **Select**.

3 Choose to forward **As message** or **As e-mail**, then press **Select**.

When forwarding as e-mail, see “Send an e-mail message” on page56.
When forwarding as a message, see “Write and send a text message” on page52.

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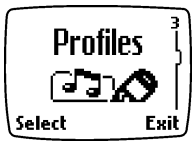
8 Personalization

The Nokia 1200 series can be easily customized to fit your lifestyle. The display language, ringing tones, audio, and accessory settings (among others) can all be modified to suit your needs.

Your phone has various **profiles** which allow you to customize ringing and alert tones for different environments. Once you modify the profiles, you can activate the profile that is appropriate for your surroundings. For example, you can select the **Silent** profile while at the movies or select the **Outdoor** profile when at a sporting event.

• PROFILES



Profiles let you set your phone's sound settings to match your environment, whether it's a meeting or a soccer game. Just pick the profile that suits your current environment: **Normal**, **Silent**, **Meeting**, **Outdoor** or **Pager**.

You can customize any of the profiles and set your own preferences for the following settings:

- Ringing options
- Ringing tone
- Ringing volume
- Message alert tone
- Keypad tones
- Warning tones
- Profile name (not available in the **Normal** profile)

Important: You can select a default profile for each of these accessories: **Headset**, **Handsfree** and **Loopset**. To learn more about accessories, see "Accessory settings" on page63.

Select a profile

1 Quickly press and release the Power key.

2 Use ⌃ and ⌄ to move to the profile you want to use.

Profile names are highlighted as you scroll through them.

3 Press **Select** to activate a profile.

Customize a profile

1 Press **Menu** 3 (**Profiles**).

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

3 Scroll to **Customize**, then press **Select**.

4 Use the scroll keys to display each of the profile options. Once you find the option you'd like to customize, press **Select**.

SET THE RINGING OPTIONS

You can choose the type of ring your phone uses to notify you of an incoming call. This setting does not affect any incoming text message alert tones.

1 Press **Menu 3** (**Menu > Profiles**).

Your phone lists each profile.

2 Use ⌃ or ⌄ to scroll to the desired profile in the list for which you want to set the ringing options, and press **Options**.

3 Scroll to **Customize** and press **Select**.

4 Scroll to **Ringing options** and press **Select**.

5 Scroll to one of the ringing options, as described below, and press **Select**.

Ring	The phone rings normally.
Ascending	Ringing volume increases (gets louder) if the phone is not answered.
Ring once	The phone rings once to indicate an incoming call.

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Beep once	The phone beeps once to indicate an incoming call.
Silent	The phone makes no sound.

SET THE RINGING TONE

The **ringing tone** is the sound your phone makes when you receive a call. You can set the ringing tone to a specific sound or tune to personalize how the phone rings.

1 Press **Menu 3** (**Menu > Profiles**).

Your phone lists each profile.

2 Use or to scroll to the profile for which you want to set the ringing tone.

3 Press **Options**.

4 Scroll to **Customize** and press **Select**.

5 Scroll to **Ringing tone** and press **Select**.

6 Scroll through the options, and when you hear the tone you want to use, press **Select**.

Note: If you have already chosen a ringing option of either **Silent** or **Beep once**, the ringing tones are already turned off. See "Set the ringing options" on page60 for details.

Note: As you scroll through the ringing tones, you can listen to a sample of each if your current ringing option is not set to **Silent**.

SET THE RINGING VOLUME

You can set the default ringing volume for incoming voice calls and message alert tones.

1 Press **Menu 3** (**Menu > Profiles**).

2 Use or to scroll to the profile you will set, and press **Options**.

3 Highlight **Customize** and press **Select**.

4 Scroll to **Ringing volume** and press **Select**.

5 Scroll through the options. When you hear the right volume level, press **Select**.

SET THE MESSAGE ALERT TONE

You can set your phone to use a certain tone to indicate an incoming text message.

1 Press **Menu 3** (**Menu > Profiles**).

2 Use or to scroll to the profile for which you want to set the message alert tone, and press **Options**.

3 Select **Customize** and press **Select**.

4 Scroll to **Message alert tone**, then press **Select**.

5 Use or to scroll through your choices.

The phone plays samples of each choice as you scroll to it.

6 When you find the tone you want, press **Select**.

SET KEYPAD TONES

Keypad tones set the volume of the tone you hear when you press your phone's keys.

1 Press **Menu 3** (**Menu > Profiles**).

2 Use or to scroll to the profile for which you want to set the keypad tones, and press **Options**.

3 Select **Customize** and press **Select**.

4 Scroll to **Keypad tones** and press **Select**.

5 Use or to scroll to one of the levels and press **Select**.

- If you choose **Off**, no keypad tones are heard.
- If you chose the **Silent profile** in step 2, the keypad tones are turned off.

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SET THE WARNING TONES

Warning tones include the sounds your phone makes during error conditions, during confirmations, when the battery is low, and when you need to recharge the battery.

1 Press **Menu 3** (**Menu > Profiles**).

2 Use or to scroll to the profile for which you want to set the warning tones, and press **Options**.

3 Select **Customize** and press **Select**.

4 Scroll to **Warning tones**, then press **Select**.

5 Scroll to **On** or **Off** and press **Select**.

Rename a profile

1 Press **Menu 3** (**Menu > Profiles**).

2 Use or to scroll to the desired profile and press **Options**.

3 Scroll to **Customize**, then press **Select**.

4 Scroll to **Profile name**, then press **Select**.

5 Enter the new name and press **OK**.

Note: You cannot rename the **Normal** profile.

Accessory settings

You can use your phone with these Nokia accessories:

- Headset (HDC-5, HDE-2, HDB-5)
- Handsfree Car kit (CARK125 and PPH-1)
- Loopset (LPS-3)
- TTY/TDD Adapter (HDA-9)

Note: You can select a default profile that will be associated with each accessory, such as **Normal**. However, the **Accessory settings** menu will not appear until after an accessory has been connected to the phone at least once.

SET UP THE LOOPSET

When you want to use the loopset, you will have to activate the accessory setting.

1 Attach the loopset to the phone.

2 Press **Menu 4-4-3** (**Settings > Accessory settings > Loopset**).

3 Scroll to **Use loopset**, then press **Select**.

4 Scroll to **Yes**, then press **Select**.

AUTOMATIC ANSWER

This feature lets your phone answer incoming calls after just one ring when an accessory is connected to the phone.

1 Press **Menu 4-4** (**Settings > Accessory settings**).

2 Scroll to **Headset**, **Handsfree**, or **Loopset**, then press **Select**.

3 Scroll to **Automatic answer**, then press **Select**.

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

SET THE LIGHTS (CAR KIT ONLY)

When your phone is connected to a car kit, you have a choice of having the phone lights on (a) continuously or (b) only when you use it.

1 Press **Menu 4-4-2-3** (**Menu > Settings > Accessory settings > Handsfree > Lights**).

2 Choose one of the following options, then press **Select**:

- On - The lights will remain on while the phone is connected to the car kit.
- Automatic - The lights will turned on only when the phone is being used.

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SET THE DEFAULT PROFILE

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

1 Press **Menu 4-4** (**Settings > Accessory settings**).

2 Scroll to **Headset**, **Handsfree** or **Loopset**, then press **Select**.

3 Scroll to **Default profile**, then press Select.

4 Scroll to the profile you want, then press **Select**.

The **Active profile** uses the current profile setting you have selected for your phone.

Set the display language

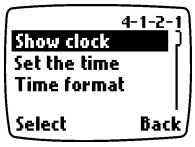
You can choose your phone's display language.

1 Press **Menu 4-3-1** (**Settings > Phone settings > Language**).

2 Scroll to the language you want, then press Select.

Set the clock

Your phone contains a real-time clock that can be set two different ways: the clock can use the time information provided by the wireless system, or it can be set manually. Once the time is set, you can display the clock on the Start screen.



For added convenience, the clock is connected to an alarm clock. See "Use the alarm clock" on page85 for additional information.

SELECT THE TIME FORMAT

You can choose whether your clock shows time in an am/pm format or a 24-hour format.

1 Press **Menu 4-1-2-3** (**Menu > Settings > Time settings > Clock > Time format**).

2 Scroll to **24-hour** or **am/pm** and press **Select**.

SET THE CLOCK USING AM/PM FORMAT

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

2 Enter the time using an hh:mm format and press **OK**.

For example, to set your clock to 8:40, enter **08:40**.

3 Scroll to **am** or **pm** and press **OK**.

SET THE CLOCK USING 24-HOUR FORMAT

1 Press **Menu 4-1-2-2** (**Menu > Settings > TIme settings > Clock > Set the time**).

2 Enter the time using an hh:mm format and press **OK**.

For example, to set your clock to 8:40, enter **08:40** (for am) or **20:40** (for pm).

3 Press **OK**.

Automatic update of time

You can set your phone to update the time from the network when you turn the phone on. If the clock in your phone is 30 seconds or more off the network time, the phone will automatically update to reflect the network time.

Note: Auto update time is a network dependent feature. Contact your service provider for details and availability.

1 Press **Menu 4-1-3** (**Settings > Phone settings > Auto update of time**).

2 Scroll to one of the following options, then press **Select**.

- **On**: Updates the time automatically.
- **Confirm first**: Requires you to confirm that you want the update. You can accept or decline the update.
- **Off**: Prevents the time from being automatically updated.

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Display the clock

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

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

3 Press Select.

Add a welcome note

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

1 Press **Menu 4-3-3** (**Settings > Phone settings > Welcome note**).

2 Enter a note, then press **Options**.

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

To erase the welcome note, follow steps 1-2, scroll to **Erase**, then press **Select**.

Restore factory settings

If you have made changes to your phone's profiles (settings), you can restore them to their original or factory settings. The memory, timers, language selection, and security code are not reset. However, profile and accessory settings are reset.

1 Press **Menu 4-3-4** (**Menu > Settings > Phone settings > Restore factory settings**).

2 At the prompt, enter your five-digit security code and press **OK**.

9 Advanced calling features

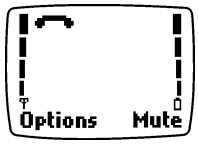
This chapter covers advanced calling features, including:

- Options available while in an call.
- Managing two calls at the same time.
- Network services such as call forwarding

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

• UNDERSTAND ACTIVE-CALL OPTIONS

Your phone allows you to use a number of features during a call; however, you may not be able to use all options at all times. Also, the order of **in-call options** may vary.



Note: Many in-call options are network dependent features. To use these options, you may need to contact your service provider.

During a call, press **Options** to see the in-call menu choices:

Menu Options	What it does
Lock keys	Allows you to lock the phone's keypad during a call.
Mute	Mutes the phone's microphone. This option can affect the microphones of accessories connected to the phone.
End all calls	Ends all active calls.
Touch tones	Sends touch tones.

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Menu Options	What it does
New call	Allows you to make a call while you have a call in progress.
Menu	Allows you to access the menus.
Names	Allows you to access the phone book.

Access menus

You can access your phone's menus while in a call.

1 Press **Options**.

2 Scroll to **Menu**, then press **Select**. To exit the menus, press **Exit**.

Note: Do not press the key to exit the menus or you will end your call.

Make a new call

To make a new call while already in a call, dial the number, then press .

End all calls

Press the key.

Access the phone book

You can access information in the phone book during a call.

1 Press **Options**.

2 Scroll to **Names**, then press **Select**.

Save a name and/or number

You can save a name and number during a call.

1 Enter the number you want to save.

2 Press **Options**, scroll to **Names**, then press **Select**.

3 Scroll to **Add new**, then press **Select**. Add the name and number as you normally would.

Mute the phone's microphone

While in a call, you can mute the phone's microphone.

- Press **Options**, scroll to **Mute**, press **Select**.

OR

- Press (**Mute**).

Use conference call

While in a call, you can call another number to add a third party to the call.

Note: Conference calling is a provider dependent feature. Contact your service provider for availability and details.

CONFERENCE A CALL

1 While in a call, you can either dial the number you want to add and press .

OR

Press **Options**, scroll to **New call**, press **Select**, enter the phone number, and press **OK**.

2 When the third party answers, press to connect all three parties.

DISCONNECT THIRD PARTY

While all three parties are connected, pressing the key disconnects the third caller, keeping the second party's call active.

DISCONNECT SECOND PARTY

If you wish to disconnect with the second party and remain connected to the third party, have the second party terminate the call on his/her end.

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RECALL A NUMBER FROM THE PHONE BOOK DURING A CALL

If you don't remember the number of the second party you want to include in the conference and the number is in your phone book, you can recall the number.

1 When prompted to enter the phone number, press **Find**.

2 Locate the number in your phone book, then press **Select**. The number will appear in the number prompt.

3 Press **OK** to call the number.

END A CONFERENCE CALL

To end all calls, press .

• USE VOICE PRIVACY

The voice privacy feature encrypts the voice channel so that people cannot eavesdrop on your phone conversations.

Note: Voice privacy is a network dependent feature. Contact your service provider for more information on this feature.

TURN VOICE PRIVACY ON/OFF

1 Press **Menu 4-6-1** (**Menu > Settings > Network services > Voice privacy**).

2 Scroll to **On** or **Off** and press **Select**.

During a call, voice privacy becomes active and notifies you with a beep. A notification message also appears on the screen.

If you turn this feature on and voice privacy becomes inactive, your phone beeps and displays the message **Voice privacy not active**.

Note: Use caution when sending confidential information if voice privacy is not active.

• USE CALL FORWARDING

With **call forwarding**, you can forward incoming calls to another phone number. Before you can use call forwarding, you must first store the feature codes. Once call forwarding has been activated, **Call forwarding** appears as a menu option.

Note: Call forwarding is a network dependent feature. Some networks require that call forwarding activation is done manually. Contact your service provider for availability and full details.

Learn about call forwarding feature codes

Your network requires separate codes for activating and cancelling the various types of call forwarding. Your carrier can provide you with the necessary feature codes for these network services.

Once you store these feature codes in your phone, they are sent automatically to the network when you select one of the call forwarding options from your phone's menu.

Your phone can store the following types of feature codes:

Option	What it does
Forward all calls	Forwards incoming calls to the number you specify.
Forward if busy	Forwards incoming calls when you're in a call.
Forward if not answered	Forwards incoming calls to another number when you are unable to answer.
Forward if out of reach	Forwards incoming calls to another number when the phone is out of the network or switched off.
Cancel all call forwarding	Cancels all active call forwarding options.

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Store the call forwarding feature code

Before you can activate call forwarding, you must contact your service provider to obtain the feature codes.

1 Press **Menu 4-6-5** (**Menu > Settings > Network services**). The **Feature code** prompt appears.

2 Enter the feature code your service provider gave you. Press **OK**.

3 Scroll to **Call forwarding** and press **Select**.

4 Scroll to the call forwarding option you want and press **Select**.

5 Scroll to **Activate** and press **Select**.

Activate/cancel call forwarding

After you store the correct feature codes, you can activate (or cancel) call forwarding as follows:

1 Press **Menu 4-6-2** (**Settings** > **Network services** > **Call forwarding**).

2 Scroll to the desired call forwarding option, then press **Select**.

3 Highlight **Activate** and press **Select**.

4 Enter the number to which you want your calls forwarded (or press **Find** to recall a number from the phone book).

5 Press **OK**.

Note: When canceling call forwarding follow steps 1-2.

• USE CALL WAITING

During a call, **call waiting** beeps to let you know that someone else is calling you. Depending on your caller ID setup, the phone might also display the number of the incoming call. Once call waiting has been activated, **Call waiting** appears as a menu option.

Note: Call waiting is a network dependent feature. In some networks the call waiting code must be activated manually. Contact your service provider for availability and full details.

Store the call waiting feature code

1 Press **Menu 4-6-5** (**Menu > Settings > Network services > Network feature setting**). The **Feature code** prompt appears.

2 Enter the feature code issued by your service provider and press **OK**.

3 Scroll to **Call waiting** and press **Select**.

4 Scroll to **Activate** and press **Select**.

Activate call waiting

1 Press **Menu 4-6-3** (**Menu > Settings > Network services > Call waiting**).

2 Scroll to **Activate** and press **Select**.

Manage calls

Call waiting works with both local and long distance calls.

- To answer an incoming call, press .
- To switch from one call to another, press .
- To end both calls, press .

• USE SEND OWN CALLER ID

This feature allows you to block caller ID when you call someone (your number will not be displayed on their caller ID). This feature is only effective when calling a number equipped with caller ID.

Note: This feature is available only when supported by the wireless network and may not function if you are roaming.

Important:This feature works on a call-by-call basis. You must enable this feature each time you want to block the sending of your own number to the recipient's caller ID.

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STORE THE FEATURE CODE

Before you can use the **Send own caller ID call** feature, you must store the feature codes for activating this feature. Once the code is stored in your phone, it is sent automatically to the network when you select this option from your phone's menu.

1 Press **Menu 4-6-5** (**Settings > Network services > Network feature setting**). The **Feature code** prompt appears.

2 Enter the feature code issued by your service provider and press OK.

3 Scroll to **Send own caller ID**, then press **Select**.

4 Select **Yes**.

PLACE A CALL WITHOUT SENDING YOUR NUMBER

1 Press **Menu 4-6-4** (**Settings** > **Network services** > **Send own caller ID**).

2 Scroll to **No**, then press **Select**.

3 Enter the desired phone number, then press **OK** (or press **Find** to recall a phone number from the phone book).

The phone automatically inserts the feature code into the dialing string and dials the phone number. The phone you are calling will not display your phone number through caller ID.

• SELECT A PHONE NUMBER

Your service provider programs your phone number and system information into your phone's memory when your phone is first activated. Your phone can hold up to three numbers. This means that your phone can be activated in three different service areas. For example, your phone could be activated in Dallas, Chicago, and New York. Each service area would assign a different phone number or account to your phone.

You must select a phone number for your home system. Only one phone number can be active at a time. If you travel outside your home system, you can choose another number. One phone number is usually enough if

your service provider has service or roaming agreements for each area in which you wish to use your phone. Contact your service provider for details.

Note: Phone number selection is a network dependent feature. Some networks may not support more than one number. Contact your service provider for availability and full details.

Select the phone number

1 Press **Menu 4-6-6** (**Menu > Settings > Network services > Own number selection**).

2 Scroll to the phone number you want to use and press **Select**.

Note: The first phone number on this list is selected. You need at least one active number to make calls. You cannot change from one phone number to another during a call.

• USE AUTOMATIC REDIAL

There are times when you may not be able to place a call (example: due to the high volume of traffic on the wireless network). When the wireless network is busy or unavailable, **Automatic redial** instructs your phone to retry the call.

ACTIVATE AUTOMATIC REDIAL

1 Press **Menu 4-2-1** (**Settings** > **Call settings** > **Automatic redial**).

2 Scroll to **On** and press **Select**.

If the system is busy, your phone makes three additional call attempts. If you want to stop the automatic redial process before the last attempt, press or **Quit**.

Important: This feature does not automatically retry a number when the number you are calling is busy.

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• USE 1-TOUCH DIALING

You can assign a name from your phone book to a 1-touch dial location, using your phone's keys 2 through 9. (The "1" key is used exclusively to dial your voice mailbox.) Once assigned, the phone number you associate with that key is dialed automatically when you press and hold the key.

Assign a key to 1-touch dialing

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

2 Scroll to a number that has the message **(empty)** and press **Assign**.

3 Scroll to the name and number to which you want to assign this key and press **Select**. Repeat these steps as many times as necessary.

4 To call a number using 1-touch dialing, press and hold the appropriate key for a few seconds.

Change 1-touch dialing numbers

You can change the 1-touch dialing key assignments at any time.

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

2 Scroll to the key you want to change and press **Options**.

3 Scroll to **Change** and press **Select**.

4 Scroll through the phone book until you reach the new number you want to select and press **Select**.

Erase 1-touch dialing numbers

You can erase 1-touch dialing key assignments at any time.

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

2 Scroll to the key you want to erase and press **Options**.

3 Scroll to **Erase** and press **Select**.

4 Press **OK** to confirm.

• SET TOUCH TONE STRINGS

Your phone allows you to create special sets of numbers known as touch tone strings which will dial a series of digits after a "wait" or a "pause." For example, you can program your phone to send your account number while you are banking by phone.

You must be in the 123 mode to enter these characters. Enter the numbers as usual. When you want to insert the special characters, press * repeatedly to switch among *, +, p, w characters.

Note: Use caution when sending confidential information if voice privacy is not active.

p Creates a *pause* when a number is dialed. The numbers you enter after this special character are automatically sent as touch tones after a 2.5-second pause.

w Creates a *wait* when a number is dialed. This means that your phone waits for you to press before it sends the number as touch tones.

* Sends command strings to the network. Contact your service provider for details.

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

Set manual touch tones

1 Press **Menu 4-3-2-1** (**Menu > Settings > Phone settings > Touch tones > Manual touch tones**).

2 Select one of the following options, then press **Select**:

Continuous	Sounds tone for as long as you press and hold a key.
Fixed	Sets the tone length to 0.1 second, regardless of how long you press a key.
Off	Turns off the tones. No tones are sent.

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Set touch tone length

You can also set the length of each touch tone.

1 Press **Menu 4-3-2-2** (**Menu > Settings > Phone settings > Touch tones > Touch tone length**).

2 Use or to scroll to **Short** or **Long**. Short sets the tone length to 0.1 second. Long sets the tone length to 0.5 second.

3 Press **Select**.

Store touch tone strings

You can store touch tone strings the same way that you store names and numbers in your phone book. You can store an entire sequence of digits and send it as touch tones for frequently used strings of numbers.

STORE TOUCH TONE STRINGS WITH PHONE NUMBERS

1 Enter the phone number that you want associated with a touch tone.

2 Enter the touch tone character where needed (p, w, or *).

3 Enter the touch tone string.

4 Store the number as you normally would.

SEND A TOUCH TONE STRING

1 Press **Menu 4-3-2-1** (**Menu > Settings > Phone settings > Touch tones > Manual touch tones**).

2 Make sure that the setting is not set to **Off**. If it is, scroll to one of the other options and press **Select**.

3 Then, during your call, press **Options**, scroll to **Touch tones** and press **Select**.

4 Enter the touch tone string or recall the string from the phone book, and press **Tones**.

If you send touch tones while in the analog mode, be careful not to send confidential information.

• SELECT A SYSTEM

Your phone can operate in residential, private, and public systems (such as your home system). You can choose how your phone selects a network to use. Your phone may not show the options described here. For information, contact your service provider.

Search for a network

Press **Menu 5** (**Menu > System**).

You have the following three options.

Automatic	Your phone automatically searches for available networks and chooses the appropriate one. Every time you turn on your phone, it resets to **Automatic**.
Manual	The phone searches for networks and then shows a list of the ones that are available. If an available network is found, the word **Available:** appears on the screen followed by the name of the network. To choose the network listed, press **OK**.
New search	Your phone begins a new search for both private and residential systems. When it finds the best system available, the phone shows the system name. If the phone doesn't find another system, the question **Perform an extended search?** will appear. Press **OK** if you wish to continue searching.

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10 Security

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

- avoid making accidental calls
- prevent unauthorized users from changing certain feature settings on your phone
- restrict outgoing or incoming calls

• USE KEYGUARD

Keyguard disables your keypad to prevent accidental key presses.

LOCK THE KEYPAD

To lock the keys, press **Menu** then *+.

UNLOCK THE KEYPAD

To unlock the keys, press **Unlock** then *+.

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

Answer a call while Keyguard is active

You can answer calls when Keyguard is activated by pressing **Answer** or . If you are connected to a headset or loopset, press and hold to end the call.

NOTES ABOUT KEYGUARD

- After you end the call, Keyguard automatically becomes active again.
- If you need the phone's lights while Keyguard is on, press the Power key to quickly switch the lights on for 15 seconds.
- Connecting your phone to a car kit automatically disables Keyguard.

• UNDERSTAND THE SECURITY CODE

The Security code prevents unauthorized users from changing certain important feature settings on your phone. When the phone requires this code, it displays a prompt asking you to enter a Security code. The five-digit default Security code that comes with your phone is 12345. Nokia recommends that you change the default code immediately.

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

Change your security code

1. Press **Menu 4-5-2** (**Menu > Settings > Security settings > Change security code**).
2. At the **Security code** prompt, enter your five-digit default security code (12345) or your current security code and press **OK**.
3. At the **Enter new security code** prompt, enter your new five-digit security code and press **OK**.
4. At the **Verify new security code** prompt, enter your new security code again and press **OK**. The confirmation **Security code changed** appears.

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Keep your security code secret and stored in a safe place away from your phone. If you have changed your security code and don't remember the new code, contact your service provider.

• RESTRICT CALLS

You can create your own list of restrictions to restrict incoming and outgoing calls. To restrict the calls, you apply the appropriate restriction as desired. The maximum number of call restrictions you can define is ten.

Before you define restrictions for outgoing calls, **Add restriction** is the only available option. After you use the **Add restriction** option to add at least one restriction, the following options become available:

- **Select**: Allows you to select call restrictions from the outgoing calls list.
- **Add restriction**: Allows you to add a new restriction.
- **Edit**: Allows you to edit an existing call restriction.
- Erase: Allows you to erase an existing call restriction.

Note: When calls are restricted, calls may be possible to the emergency number programmed into your phone (for example, 911 or other official emergency number). For example, you could dial 911 and press .

Add a number to the call restriction list

1. Press **Menu 4-5-1-1** (**Menu > Settings > Security settings > Call restrictions > Restrict outgoing calls**).
2. Enter your security code, then press **OK**.
3. Scroll to **Restrict outgoing calls**, then press **Select**.
4. Scroll to **Add restriction** and press **Select**.

5 At the number prompt, enter the number you want to restrict, and press **OK**.

For example: If you want to restrict all long distance calls that begin with 1, enter 1. If you want to restrict all calls that begin with 972, enter 972.

6 Enter a name for the restriction, then press **OK**.

If you press **OK** without entering a name, the number will be used.

Restrict outgoing calls

1 Press **Menu 4-5-1-1** (**Menu > Settings > Security settings > Call restrictions > Restrict outgoing calls**).

2 Enter your security code, then press **OK**.

3 Scroll to **Restrict outgoing calls**, then press **Select**.

4 Scroll to **Select** to choose from your list of call restrictions.

To deactivate a call restriction, highlight the restriction and press **Unmark**.

5 Scroll to the restriction you want to activate and press **Mark**.

6 Press **Back**. At **Save changes?**, press **Yes**.

To return to the Start screen, press .

Restrict all incoming calls

1 Press **Menu 4-5-1-2** (**Menu > Settings > Security settings > Call restrictions > Restrict incoming calls**).

2 Enter your security code, then press **OK**.

3 Scroll to **Restrict incoming calls**, then press **Select**.

4 Press **Mark** to restrict all incoming calls.

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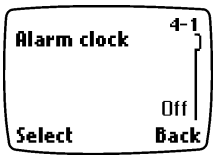
11 Special features

This section describes several special features, including transmission of business cards, downloading ringing tones, and setting the alarm clock.

• USE THE ALARM CLOCK



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

Set the alarm clock

1 Press **Menu 4-1-1** (**Settings > Time settings > Alarm clock**).

2 Enter the alarm time in **hh:mm** format, then press **OK**.

3 Select either **am** or **pm**, then press **Select**.

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

Respond to the alarm

At the time of the alarm, the phone sounds an alert tone. Pressing **Stop** or the key stops the alarm from sounding, and returns you to the Start screen.

SNOOZING

There are several ways you can enable the **Snooze** feature:

1 Press the **Snooze** selection key.

2 Press any key except .

3 Allow the alarm to sound for one minute.

Once snooze is enabled, the alarm will sound again in ten minutes. If you press **Stop** or the key while snoozing, the alarm will be turned off.

Alarm when phone power is off

If the alarm time is reached while the phone is off, the phone switches itself on and starts sounding the alarm tone. If you press **Stop**, the phone asks whether you want to activate the phone for calls. Press **No** to switch off the phone or **Yes** to make and receive calls.

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

Turn off the alarm clock

1 Press **Menu 4-1-1** (**Settings > Time settings > Alarm clock**).

2 Scroll to **Off** and press **Select**.

• SEND AND RECEIVE BUSINESS CARDS

Your phone can send or receive electronic **business cards** consisting of a name, phone number and e-mail. You can save received business cards in your phone book.

Send a business card

1 Find the name in your phone book.

2 Press **Options** and scroll to **Send bus. card**.

3 Press **Select**.

4 Enter or recall the phone number to which you want to send the business card and press **Send**.

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View a received business card

When you receive a business card, the phone displays **Business card received**.

1 When your phone displays **Business card received**, press **Options**.

2 **Show** is selected. Press **Select**.

3 Scroll through the available information.

Save a viewed business card

1 After viewing the business card, press **Back, scroll to Save** and press **Select**.

2 At the **Name:** prompt, edit the name if desired, then press **OK**.

3 At the **Number:** prompt, edit the number if desired, then press **OK**.

4 At the **E-mail** address prompt, edit the e-mail address if desired, then press **OK**.

Delete a viewed business card

After viewing the business card:

1 Press **Back**.

2 Scroll to **Discard**, then press **OK**.

3 At **Discard business card?**, press **OK**.

• DOWNLOAD A RINGING TONE

You can download up to ten ringing tones to replace the personal entries in your list of ringing tones. For details about this service, please contact your wireless service provider.

Notification of a received ringing tone

If you have this service and your phone receives a downloaded ringing tone, your phone displays **Ringing tone received**.

Listen to received ringing tones

1 When your phone shows **Ringing tone received**, press **Options**.

2 **Playback** is selected. Press **OK**.

The phone plays the ringing tone.

3 To stop playing the ringing tone, press **Quit**.

Note: An incoming call or pressing any key stops the ringing tone from playing.

Save a received ringing tone

1 After listening to the ringing tone, press **Quit**.

2 Scroll to **Save tone**. Press **OK**.

3 Choose which ringing tone you want to replace – either an empty **Personal** location, if any are remaining, or a previously downloaded tone.

Discard a received ringing tone

1 After listening to the ringing tone, press **Quit**.

2 Scroll to **Discard tone** Press **OK**.

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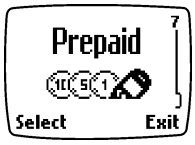
12 Prepaid services



With prepaid service, you buy wireless network services in advance. Your phone works the same way it did before, with some additional features.

Prepaid service may not be available from your wireless service provider. Contact your service provider for details.

• MANAGE PREPAID SERVICE

After you sign up with your service provider for prepaid service, you can activate the Prepaid menu in your phone. This menu appears on your screen only if you've activated the service.

ACTIVATE PREPAID

To activate prepaid services, enter the following sequence:

(*#7766#)

DEACTIVATE PREPAID

To deactivate prepaid services, enter the following sequence:

(*#77633#)

USE THE MENU

- To use the prepaid menu, press **Menu** and then press to go immediately to **Prepaid**.
- Once you select the prepaid menu, press or to scroll through prepaid options.

• CHECK YOUR PREPAID BALANCE

You can check the balance remaining in your prepaid account. Contact your service provider for the access number used to check the balance.

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

1 Press **Menu 7-1** (**Menu > Prepaid > Check account balance**).

2 At **Balance number**, enter the balance number and press **OK**.

If you have already saved the balance number under **Save access phone numbers**, the phone will initiate a call to the saved number.

3 The phone calls the balance number. Follow the prompts you hear from the operator.

• ADD MONEY TO YOUR ACCOUNT

Call the access number your service provider gave you to add money to your account. For convenience, see For convenience, see “Save your access numbers” on page91.

1 Press **Menu 7-2** (**Menu > Prepaid > Add money to account**).

2 At **Replenish no.**, enter the replenish number and press **OK**.

If you have already saved the replenish number under **Save access phone numbers**, the phone will initiate a call to the saved number.

3 Follow the prompts you hear from the operator.

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• CALL CUSTOMER SERVICE

You can call the customer service number for your prepaid account. Contact your service provider for the access numbers.

1 Press **Menu 7-3** (**Menu > Prepaid > Call customer service**).

2 Enter the customer service number your service provider gave you, then press **OK**.

If you have already saved the customer service number under **Save access phone numbers**, the phone will initiate a call to the saved number.

The phone calls the customer service number. Follow the prompts you hear from the operator.

• SAVE YOUR ACCESS NUMBERS

You can check your prepaid balance, add money to your account, and call customer service. To do that, you first need to save the correct access numbers in your phone. Contact your service provider for the access numbers.

1 Press **Menu 7-4** (**Menu > Prepaid > Save access phone numbers**).

2 At **Save access phone numbers**, press **Select**.

3 Scroll to **Replenish phone number**, press **Select**, enter the replenish number your service provider gave you, then press **OK**.

4 Scroll to **Balance phone number**, press **Select**.

5 Enter the balance number your service provider gave you, then press **OK**.

6 Scroll to **Customer service phone number**, then press **Select**.

7 Enter the customer service number your service provider gave you, then press **OK**.

• EXPIRATION DATE

You can store and edit the expiration date of your prepaid credit each time you add money to your account. You enter and change this date manually.

1 Press **Menu 7** (**Menu > Prepaid**).

2 Scroll to **Expiration date**, then press **Select**.

3 Enter your expiration date, then press **OK**.

To simply view the current expiration date that you have entered, press **Menu 7-5**.

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13 Games

You can use your phone for communication *and* some serious fun. Your phone offers three games: Snake II, Space impact, and Pairs II.

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

• START A NEW GAME

1 Press **Menu 6** (**Menu > Games**) and press **Select**.

2 Scroll to the desired game and press **Select**.

3 Select **New game**, and press **Select**.

Additional options under each game include:

Option	What it does
Continue	Continue a game that was stopped.
New Game	Start a new game.
Level (Snake II and Pairs II only)	Choose the game's difficulty level.
Mazes (Snake II only)	Choose among different maze designs.
Top score	Display the top score.
Instructions	Learn how to play the game.

Option	What it does
Time trial (Pairs II only)	To advance to the next level, you must pair up all tiles before the dynamite fuse runs out.
Puzzle (Pairs II only)	Reveal pictures to find pairs with as few tries as possible.

Please visit Nokia games services on the Internet for more hints and tips at www.nokia.com.

GAME SETTINGS

Game sounds and lights can be turned on or off. To access the settings menu press **Menu** > **Games** > **Settings**.

• SNAKE II

Feed the snake with as many goodies as possible and watch it grow. Press **Menu 6-1**.

To turn the snake toward the food, press 2 abc, 4 ghi, 6 mno and 8 tuv. 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, found in one of the maze levels, the game is over.

• SPACE IMPACT

Use your weapons to survive alien attacks. When you defeat all the enemies, you progress to the next level. Press **Menu 6-2**.

To move up and down, press 8 tuv and 0.

To move to the left and right, press * and #.

To fire the main weapons, press 1 or 3 def.

To fire the bonus weapons, press 4 ghi or 6 mno.

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- PAIRS II

The object of the game is to uncover the pictures to find pairs in as few tries as possible. Press **Menu 6-3** and choose between **Time Trial** and **Puzzle**.

Move the cursor with keys 2 abc, 4 ghi, 6 mno and 8 tuv.

To reveal the pictures, press 5 jkl.

When playing in **Time trial** mode, you must match all the pairs before the dynamite fuse runs out in order to advance to the next level.

14 Reference information

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

- 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.

For good operation times with NiMh batteries, discharge the battery from time to time by leaving your phone switched on until it turns itself off (or by using the battery discharge facility of any approved accessory available for your phone). Do not attempt to discharge the battery by any other means.

Use the battery only for its intended purpose.

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

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

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 59°F and 77°F (15°C and 25°C). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire!

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

Note: For information on how to charge and recharge your battery, refer to “Important battery information” on page11.

• PROPER CARE AND MAINTENANCE

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

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside and may damage electronic circuit boards.
- Do not attempt to open the phone. Nonexpert handling may damage it.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate regulations governing radio devices.

All of the above suggestions apply equally to your phone, battery, charger or any accessory. If any of them are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

• IMPORTANT SAFETY INFORMATION

This section provides additional safety information. A brief overview of safety can be found in “Safety first” on page1.

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!

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Operating environment

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

Use the phone only in its normal operating positions.

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

Electronic devices

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

PACEMAKERS

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

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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.

• MAKE EMERGENCY CALLS

Important: This phone, like any wireless phone, operates using radio signals, wireless, and landline networks as well as user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).

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

To make an emergency call:

1. If the phone is not on, switch it on. Check for adequate signal strength.
2. Press as many times as needed (for example, to exit a call, to exit a menu, etc.) to clear the display and ready the phone for calls.
3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
4. Press the key.

If certain features are in use, (keyguard, etc.) you may first need to turn those features off before you can make an emergency call. Consult this user guide and your local wireless service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your wireless phone may be the only means of communication at the scene of an accident - do not end the call until given permission to do so

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• CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The following values are the highest SAR values for this model phone as reported to the FCC:

When tested for use at the ear -

FCCID # LJPNKW-1 is 1.16 W/kg

FCCID # LJPNKW-1X is 1.17 W/kg

When worn on the body, as described in this user guide:

FCCID # LJPNKW-1 is 0.95 W/kg

FCCID # LJPNKW-1X 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 LJPNKW-1 and LJPNKW-1X.

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**.

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• ACCESSORY SAFETY

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

Check the model number of any charger before use with this phone. This device is intended for use when supplied with power from an ACP-7U, ACP-8U, ACP-12U, LCH-9 charger.

Warning: Use only Nokia original accessories, or batteries, chargers, and accessories approved by Nokia, for use with this Nokia phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

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

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

When you are not using a charger, disconnect it from the power source.

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

Practical rules for accessory operation

- Keep all accessories out of reach of small children.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that any vehicle-installed accessories are mounted and are operating properly.

- Installation of any complex car accessories must be made by qualified personnel only.
- Use only batteries, chargers, and accessories that have been approved by the phone manufacturer. The use of any other types could invalidate any approval or warranty applying to the phone and could be dangerous. Refer to “Accessory safety” on page105 for important battery usage information.

Batteries

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

Note: Dispose of used batteries in accordance with any local regulations.

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

Charging Times

The charging times listed below are approximate.

Battery option	ACP-7U Charger	ACP-8U Charger	ACP-12U Charger
BMC-3 NiMH Battery 900 mAh	up to 4 h	up to 2 h	up to 1 h 40 m

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Standby and Talk Times

Battery talk and standby times are estimates only and depend on signal strength, network conditions, features used, battery age and condition (including the effect of charging habits), temperatures to which the battery is exposed, use in digital mode, and many other factors. Please note that the amount of time a phone is used for calls will affect its standby time. Likewise, the amount of time that the phone is turned on and in standby mode will affect its talk time.

Battery option	Talk time		Standby Time	
	Digital	Analog	Digital	Analog
BMC-3 NiMH Battery 900 mAh	up to 2 h - 5 h	up to 1 h - 2 h	up to 6.5 d - 15 d	up to 1 d - 2 d
BLC-2 Li-ion Battery 950 mAh	up to 2.5 h - 5 h	up to 1 h - 2 h	up to 7 d - 16 d	up to 1 d - 2 d

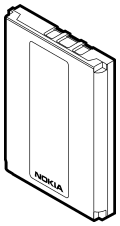
• ACCESSORIES

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.

Warning: Use only Nokia original accessories, or batteries, chargers and accessories approved by Nokia, for use with this Nokia phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

900 mAh NiMH Battery (BMC-3)

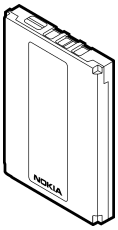
Provides up to 2 - 5 hours of digital talk time and up to 6.5 - 15 days of digital standby time.
Provides up to 1 - 2 hours of analog talk time and up to 1 - 2 days of analog standby time.



Note: Operation times are estimates and may vary depending on network conditions, charging and phone use.

950 mAh Li-ion Battery (BLC-2))

Provides up to 2.5 - 5 hours of digital talk time and up to 7 - 16 days of digital standby time.
Provides up to 1 - 2 hours of analog talk time and up to 1 - 2 days of analog standby time.



Note: Operation times are estimates and may vary depending on network conditions, charging and phone use.

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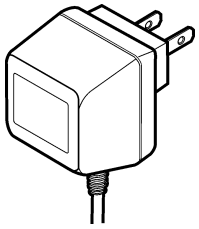
Standard Travel Charger (ACP-7U)

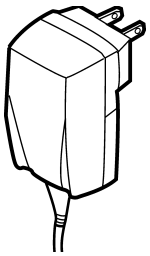


The Standard Travel Charger is a lightweight (187 g) and durable AC charger.

To use the Standard Travel Charger, plug it into a standard 120 V AC wall outlet and connect the lead from the charger to the base of your phone.

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

Rapid Travel Charger (ACP-8U)

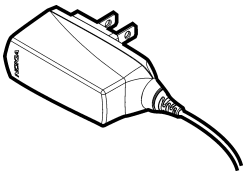


The Rapid Travel Charger is a lightweight (100 g) and durable AC charger. Calls can be made during charging, even with a fully discharged battery.

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

Approximate charging times for discharged batteries are shown in “Charging Times” on page106.

Rapid Travel Charger (ACP-12U)

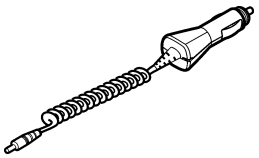


The Rapid Travel Charger is a lightweight and durable AC charger. Calls can be made during charging, even with a fully discharged battery.

To use the Rapid Travel Charger (ACP-12U), 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.

Rapid Cigarette Lighter Charger (LCH-9)

You can charge your phone's battery from your vehicle battery by using the Rapid Cigarette Lighter Charger (LCH-9).

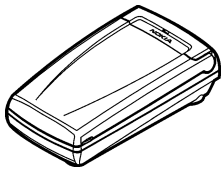


Calls are possible during charging. A green light indicates that the charger is ready for charging. The battery charging times are the same as those for the Rapid Travel Charger (ACP-8).

The input voltage range is from 11 V to 24 V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger (LCH-9) when the car engine is not running; this could cause your car battery to drain. Note also, that in some cars, the cigarette lighter plug is not provided with electricity if the ignition is not switched on.

Spare Battery Charger (DDC-1)

Lightweight and stylish, this charger provides a convenient way to charge your spare battery.



Compatible with:
Standard Travel Charger (ACP-7U)
Rapid Travel Charger (ACP-8U)

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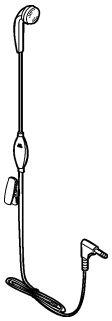
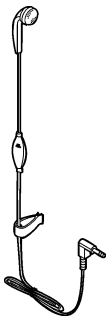
Headset (HDC-5)

Small and lightweight, the headset 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. A remote control button located in the microphone makes the headset convenient to use while answering or receiving calls.



Headset (HDE-2)

Small and lightweight, the headset allows easy and convenient handsfree operation. This headset comes with a clip for a comfortable fit. This headset's 4-wire 2.5 mm jack fits directly into the bottom of your phone.



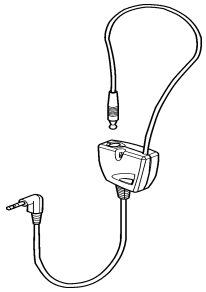
Boom headset (HDB-5)

Compact and functional, the Boom Headset provides you with convenient, portable handsfree facility. A new and modern "over the ear" concept with a stylish design and basic handsfree functionality, including the answer/end button.

This headset's 4-wire 2.5 mm jack fits directly into the bottom of your phone.

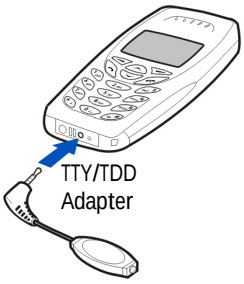
Loopset (LPS-3)

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.



TTY/TDD Adapter (HDA-9)

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



WHAT YOU'LL NEED

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

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

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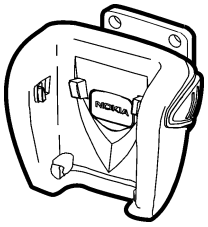
Mobile Holder (MBC-6)

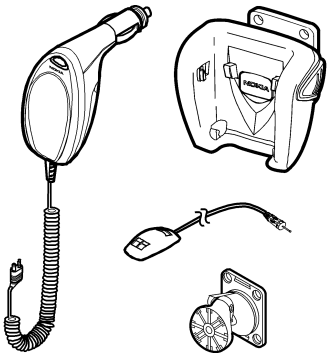
Small and easy to use, the Mobile Holder provides an ideal place to hold the phone in a vehicle. The Mobile Holder is easy to attach to the dashboard via a mounting plate or swivel. The Mobile Holder is compatible with the Rapid Cigarette Lighter Charger (LCH-9) and the Express Car Kit (PPH-1).



Express Car Kit (CARK 125)

This car kit provides charging and handsfree functionality. With excellent audio quality, the car kit is easy to use and is compatible with 12 V systems.

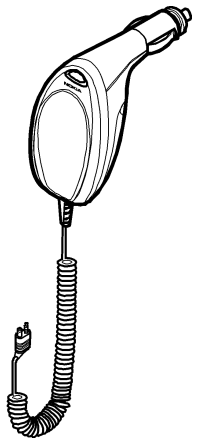
The Express Car Kit Includes a holder, plug-in handsfree, external microphone.



Express Car Kit (PPH-1)

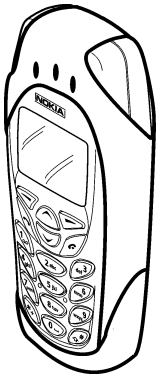
The Express Car Kit provides charging and handsfree functionality. Compatible with 12 V systems, the Express Car Kit plugs into the cigarette lighter socket for charging. A green light indicates readiness for charging. The Express Car Kit has a built in speaker and uses the phone's microphone. The Express Car Kit also has a connector for an optional external microphone (HFM-8). The microphone should be installed 20" apart from the external speaker.

The Express Car Kit requires no screws for installation and thus can be moved easily from car to car.



Carry case (CSM-6)

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



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• FREQUENTLY ASKED QUESTIONS

This section lists and answers the questions phone users most frequently ask. Some of the answers tell you to use menu shortcuts. For a complete listing of these shortcuts, refer to “Menu shortcuts” on page25.

Q. What is my security code?

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

Q. How do I lock and unlock the keypad?

A. You can lock the keypad by pressing Menu > *+. To unlock the keypad press Unlock and then press *+.

The term Keyguard is also used in connection with this feature.

Q. How do I make the ringing louder?

A. Press Menu **3** (Profiles), and scroll through the list of profiles until you find the one for which you want to set the ringing volume. Then press Options.

- Highlight Customize and press Select.
- Scroll to Ringing volume, and then press Select.
- Scroll through the options to find the volume level you want and press Select.

Q. How do I change the ringing tone?

A. Press Menu 3 (Profiles) and scroll through the list of profiles until you find the one for which you want to set the ringing tone. Then press Options.

- Highlight Customize and press Select.
- Scroll to Ringing tone, and then press Select.
- Scroll through the options. After you hear the tone you want to use, press Select.

Q. How do I store my voice mailbox number?

A. Press Menu 1-8-2 (Messages > Voice messages > Voice mailbox number). Enter your voice mailbox phone number, and press OK. The screen tells you that the number is saved.

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.

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

A. When your phone alerts you to new voice messages, press Listen and follow the instructions on the phone. If you'd rather listen to your messages later, press Exit.

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

- Press and hold 1.
- Press Menu 1-8-1 (Messages > Voice messages > Listen to voice messages). Follow the voice prompts to review your messages.

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

A. Press twice.

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

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

Press Select.

Use or to scroll to the first number that includes the message (**empty**) and press Assign.

Retrieve the name/number you want to assign this key and press Select.

Repeat these steps as many times as necessary.

Q. How do I find out the amount of memory I have used in my phone?

A. Press Names and scroll to Options.

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Press Select. Scroll to Memory status and press Select again. Your memory status appears.

Q. How do I find my phone's Model number and ESN number?

A. The model number and ESN numbers are located on a label under the phone's battery. Turn your phone off, remove the back cover and then remove the battery from the phone.

Q. How do I clear my call timers?

A. WARNING: The clearing of call timers cannot be undone.

Press Menu 2-5-3 (Call log > Call timers > Clear timers). When the security code prompt appears, enter your security code and press OK.

• GLOSSARY

Business card A business card is the same as an entry in the phone book. It may contain a name, phone number, and text entry. It can also be sent to other devices.

Call forwarding A network services feature you use to forward incoming calls to another number.

Call lists A list used to track numbers for dialed, received, or missed calls.

Call log A log that registers information about calls you make and receive.

Call timers Timers used to track the amount of time you spend on calls.

Call waiting A network services feature that enables your phone to beep while you are in the middle of a call. The beep lets you know that someone else is calling you.

Electronic serial number (ESN) The identification number that is assigned to the phone. This number is located under the battery.

In-call options Features available for use while you are in a call.

Keyguard Locks the keypad to prevent accidental key presses.

Keypad tones The tone you hear when you press a key.

Menu A list of choices you can make to change settings on your phone or use various phone features.

Predictive text A method of entering information in your phone that uses a dictionary to predict, or guess, what you are writing.

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Profile	A group of settings you can use to customize the way your phone works.
Quick save	A fast method for saving a number to the phone book.
Ringing tone	The sound your phone makes when you receive a call. Ringing tones can be ringing sounds or short tunes.
Scroll bar	A bar that appears on the right side of the screen when you scroll through the main menus.
SMS	The quick way to say **s**hort **m**essage **s**ervice.
Start screen	Your phone's idle screen.
Voice mail	A network services feature that allows people who call and miss you to leave a voice message in your voice mailbox.
Warning tones	Sounds your phone makes during error conditions, during confirmations, when the battery is low, and when you need to recharge the battery.

• TECHNICAL INFORMATION

Feature	Specification
Weight	5.3 oz with BMC-3 900 mAh NiMH battery
Size	105 cc
Frequency Range	Lowband 824.04 - 848.97 MHz (TX) 869.04 - 893.97 MHz (RX) Highband 1850.04 - 1909.92 MHz (TX) 1930.08 - 1989.96 MHz (RX)
Transmitter Output Power	Up to 600mW
Battery Voltage	3.6 V nominal
Operating Temperature	-4°F to + 104°F (-20°C to + 40°C)
Number of Channels	**832 lowband** **1997 highband**
Phone numbers	Up to 3
Memory Locations	Up to 200

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• TROUBLESHOOTING

This section lists some of the most commonly encountered problems and provides possible 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.	Ensure that the charger is plugged in correctly.
My phone isn't making or answering calls.	The battery is not charged.	Charge the battery.
	The signal strength is too low.	If you are indoors, move toward a window.
I can't listen to my voice messages.	You don't have voice mail service.	This is a service provider dependent feature. Please call your wireless service provider.
	The voice mail number you have saved is incorrect.	
	You have forgotten your password or are entering in incorrectly.	
	Your voice mail number is not saved in the phone.	Refer to "Save the voice mailbox number" on page48.

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.

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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.

8 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.

b) 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.

c) The Product serial number plate or the accessory data code has been removed, defaced or altered.

d) 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.

9 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

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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.

10 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.

11 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.

12 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.

13 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.

14 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.

15 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.

16 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.

17 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)

18 The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

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Manufactured or sold under one or more of the following US patents:

5001372	5371481	5553125	5805084	5893060	6006114	6119002	6229996
5045973	5390223	5594797	5819165	5903839	6026161	6119003	6269331
5101175	5400949	5604921	5822366	5907823	6035194	6128509	6282373
5124672	5416435	5606548	5835858	5914796	6043760	6144243	6285888
5212834	5430740	5613235	5839101	5920826	6049796	6151485	6286122
5230091	5442521	5625274	5842141	5924026	6055439	6151507	6292668
5233634	5446364	5677620	5844884	5924038	6060193	6154457	6308084
5241284	5471655	5692032	5845219	5953665	6084962	6163609	6310609
5241583	5479476	5697074	5857151	5956625	6094587	6164547	6311054
5266782	5487084	5734683	5870683	5987406	6097961	6185295	6314166
5317283	5493255	5760568	5887262	5987639	6097964	6188909	6324412
5335362	5551067	5794142	5892475	5999523	6115617	6219560	

Pending:

29158527 29158526
29158528 29158485
29158529 29158524

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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

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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.

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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.

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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, 2001For updates: http://www.fda.gov/cdrh/phones

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Para obtener un manual del usuario en español favor de llamar o enviar un fax al teléfono 1-888-NOKIA-2U, fax 813-249-9619.