

Nokia 3361

User Guide

DRAFT

Phone notes

	Notes	Where to get information
My number		Wireless service provider
Number to call for voice mail		Wireless service provider
Wireless provider's number		Wireless service provider
Provider's customer care		Wireless service provider
Model number	3361	See "Contact Nokia" on page 9.
Phone type	NPW-1PA	Back of title page
Electronic serial number (ESN)		See "Contact Nokia" on page 9.

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

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

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1 Safety first



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

Following are important safety precautions for phone use.



Road safety comes first

Do not use a hand-held phone while driving. Park the vehicle first.



Switch off in hospitals

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



Switch off while aboard aircraft

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



Switch off when refueling

Do not use your phone at a refueling point. Do not use it near fuel or chemicals.



Switch off near blasting

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



Observe infrared precautions

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



Emergency calls

Make sure the phone is switched on and in service. If the word Clear appears on the screen above the right selection key, press and hold it to clear the display. Enter the emergency number, then press Call. Give your location. Do *not* end the call until told to do so.



Be aware of interference

All wireless phones may get interference that could affect performance.



Use your phone sensibly

Use your phone only in the normal position (next to the ear). Do not touch the antenna unnecessarily.



Use only qualified service personnel

Equipment must be installed or repaired only by qualified service personnel.



Use approved accessories and batteries

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



Read instructions before you connect to other devices

When you connect your phone to any other device, read the device's user guide for detailed safety instructions. Do not connect incompatible products. Remember to make backup copies of all important data.



Make sure the phone is on

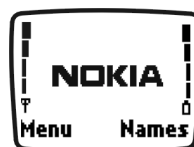
Before you make a call, be sure your phone is switched on. To make and receive calls, you must sign up with the services of an operator. For further information contact your operator.

2 Welcome

2

Congratulations on your purchase of a Nokia 3361 mobile phone, a new tool for the mobile information society.

Nokia recommends that you read this chapter before you use your new phone. You will 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 use this guide effectively.

Understand the terms

This guide uses certain terms for certain actions.

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

2

Notice text conventions

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

Convention	What it means
bold	The word or phrase appears on the phone's screen.
bold and blue	The word is an address on the World Wide Web.
bold and blue	A definition for the word or phrase appears in the terms list (glossary) near the end of the user guide.
<i>italic</i>	Italics indicate emphasis. Pay close attention to any information in italics.

Follow graphic clues

This guide uses certain icons (small pictures) to alert you to important information.



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



Note: Explains a feature or points out an important concept



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



Caution: Warns you when you may lose information



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

Look for updates

From time to time, Nokia updates this user guide to reflect changes or corrections. The latest version may be available at the Nokia site on the World Wide Web:

<http://www.nokia.com>

- 1 On the home page, click Nokia Phones, scroll to the section about your phone, and click Phone details.
- 2 Click an item to download the user guide, quick guide, or interactive guide (if available).

View an interactive user guide at:

www.nokiahowto.com

• UNDERSTAND WIRELESS NETWORK SERVICES

A wireless network service provides the connections you need to use your mobile phone. The network can give you access to special wireless services, including:

- Voice mail and voice privacy
- Call waiting, call forwarding, and caller ID
- Text and picture messages
- Ability to send your own number
- News and information services
- Selected Internet access services



Sign up with a service provider

Before you can use network services, you must sign up with a wireless service provider. Your service provider will give you descriptions of its services and instructions for using them.

Note differences among service providers

Wireless network providers differ from each other in certain ways. For example, some networks may not support all language-dependent characters. When you sign up for service, make sure your provider offers the services you need.

• LEARN ABOUT ACCESSIBILITY SOLUTIONS

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. Nokia maintains a World Wide Web site that is dedicated to accessibility solutions. For more information about phone features, accessories, and other Nokia products designed with those features, visit the Nokia World Wide Web site at:

www.nokiaaccessibility.com.

Alternate format user guides

This user guide is available in alternate formats, including:

Braille

Large print

Audio cassette

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

To request any format, call Nokia Customer Care at (888) 665-4228.

Hearing-impaired and other TTY users can contact Nokia at (800) 246-6542.

LPS-3 Mobile Inductive Loopset

The LPS-3 Loopset is a Nokia accessory designed to make the 3300 series phone more accessible to hearing-aid users. The LPS-3 Loopset is also compatible with the Nokia 8200- and 8800-series digital phones.

The Nokia Loopset gives hearing-impaired wireless customers clear access to digital telephony for the first time. With the loopset, people who use a T-coil equipped hearing aid can make and receive calls without noise interference.

HOW THE LOOPSET WORKS

The LPS-3 Loopset uses inductive technology to transmit sound to a hearing aid equipped with a T-coil. With inductive technology, 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.

To activate the Loopset for use, go to the Loopset profile under Menu 4-4-3 (Menu > Settings > Accessory settings > Loopset). For detailed instructions on using the loopset, refer to the booklet that comes with the LPS-3.



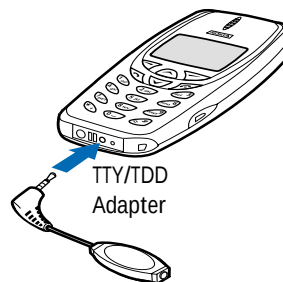
Note: The Loopset can be purchased separately as an accessory.

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

Set up the TTY/TDD profile

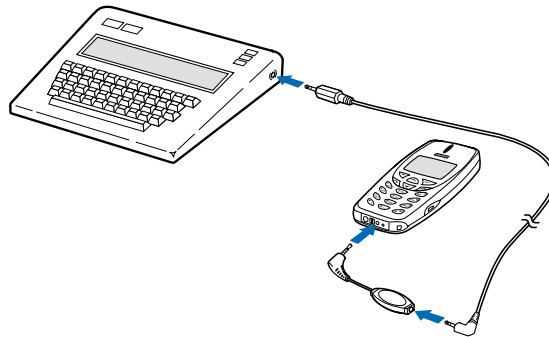
You can connect your phone to a TTY/TDD using the Nokia TTY/TDD Adapter (HDA-9). In order for your phone to recognize the TTY/TDD, you'll need to set up the TTY/TDD profile, under Accessory settings.

2



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

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



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

NOTES ABOUT TTY/TDD CALLS

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

MAKE A TTY/TDD CALL



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

2

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

RECEIVE A TTY/TDD CALL



Tip: You may find it helpful to use the vibrating alert under the Profiles menu. See the user guide for details.

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

END A TTY/TDD CALL

Press .

Accessible features

This phone has many accessible features, including:

- Nibs beneath the  key for quick reference to the keypad
- Tactile feedback when a you press a key
- Adjustable display contrast
- Ability to send and receive short text messages
- Convenience of 1-touch dialing
- Vibrating alert for incoming calls and messages

• CONTACT NOKIA

When you need help, the Nokia Customer Care department can provide information about Nokia products.

Have the right information available

We recommend that you have the following information available before you contact the Nokia Customer Care department:

- The phone's model number (3361)
- Electronic serial number (ESN)
- Your ZIP code

The serial number is on the phone's label (under the battery).

• YOUR PHONE'S LABEL

The label is on the back of your phone (under the battery). It contains important information about your phone, including the model and serial numbers.

Please do not remove or deface the label.

Nokia recommends that you note this information on the first page of this guide.

Have the phone or accessory available

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

Nokia Customer Care Center, USA	Nokia Interaction Center
Nokia Mobile Phones, Inc. 7725 Woodland Center Boulevard, Suite #150 Tampa, Florida 33614 Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619 For TTY and TDD users only: 1-800-24-NOKIA (1-800-246-6542)	Nokia Products Ltd. 601 Westney Rd. South Ajax, Ontario L1S 4N7 Tel: 1-888-22-NOKIA (1-888-226-6542) Fax: 1-905-427-1070

- **CONTACT YOUR SERVICE PROVIDER**

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

This one-key feature might not be available on your system. Contact your service provider for availability.

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

Press and hold the  key (or the key that your service provider instructed you to use) for 2 seconds.

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

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

2

3 Set up your phone

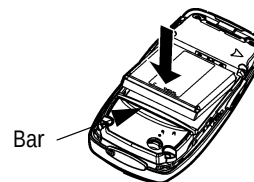
Before you use your phone, you need to:

- Charge the battery.
- Connect any accessories you want to use.
- Adjust a few phone settings to suit your needs.

If your dealer has already installed the battery, you can skip to “Charge the battery.”

• INSTALL THE BATTERY

- 1 Push in the release button on the back of the phone (1), slide the cover toward the top of the phone (2 and 3), and remove it.
- 2 Place the battery in the compartment with the label side facing up and the golden contact area aligned with the contact prongs.
- 3 Slide the battery into place and snap the top of the battery in so that the bar comes down snugly next to the battery.



- 4 Replace the cover (1) and slide it until you hear a click (2).



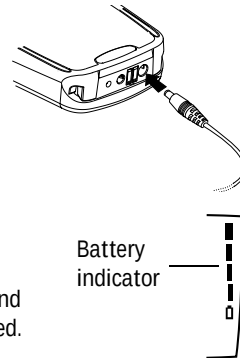
- **CHARGE THE BATTERY**

Follow these guidelines to charge the battery.

- 1 With your phone on or off, connect the lead from the charger to the bottom of the phone.
- 2 Connect the charger to an AC wall outlet.

The battery indicator bar appears on the screen and starts to scroll up and down after a few seconds.

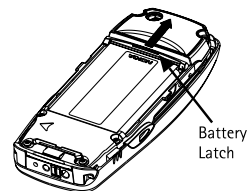
- 3 Disconnect the charger from the phone and AC outlet when the battery is fully charged.



- **REMOVE THE BATTERY**

You will need to remove the existing battery if you want to install a new battery or if you've purchased a spare battery. Make sure the phone has been turned off for 10 seconds.

- 1 Remove the back cover of the phone.
- 2 Look for the battery latch that runs along the end of the battery nearest the top of the phone.
- 3 With your thumbs, push the latch away from the battery until the latch snaps and the battery lifts slightly.
- 4 Take out the battery.



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

- **IMPORTANT BATTERY INFORMATION**

- 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 estimated times during the first charges. This condition is normal.
- When the battery is fully discharged, the scrolling bars may not appear immediately.
- After the first charge, you can make and receive calls during the charging cycle, but the calls interrupt the charging. When the phone call ends, the charging will resume.
- The bars on the screen stop scrolling and remain constant when the phone is fully 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 page 121 for more information on batteries.

- Charging time depends on the charger and battery used. See “Batteries” on page 131 for charging, talk, and standby times.

- **PROLONG BATTERY LIFE**

A NiMH battery may last longer and have better performance if you fully discharge it from time to time. To discharge your battery leave your phone switched on until the battery drains completely and the phone 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 means other than those just described.

- **SWITCH ON YOUR PHONE**

When the battery is completely charged, you can switch on your phone.

Press and hold the power key  for two seconds.



Warning: Do not switch on the phone in places where wireless phone use is prohibited or where the use of the phone could cause interference or danger.

3

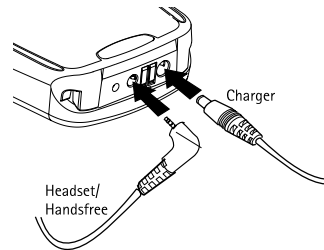
- **SET UP YOUR HEADSET**

The headset provides convenient handsfree use of the phone.

Connect the headset

When you use 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, answer and end calls as usual. Use the keypad to press  (talk) or  (end) or to enter numbers to make a call.

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

- **USE THE CARRYING CASE**

The carrying case helps protect the phone when you're not using it.

Nokia recommends that you keep the phone in a case when you're not actively using the phone for calls.

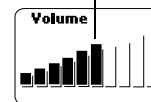
• ADJUST THE VOLUME

You can change the volume level on your phone, making incoming voice sounds louder or softer.

While in a call, Press  to increase the volume, and  to decrease it.

A bar chart appears on the phone's screen, showing the current volume level.

Current volume



• ADJUST SCREEN CONTRAST

You can change the contrast on your phone's screen, making the screen brighter or darker.

- 1 Press Menu 4-3-5 (Menu > Settings > Phone settings > Display contrast).

A bar chart appears, showing the current contrast level.



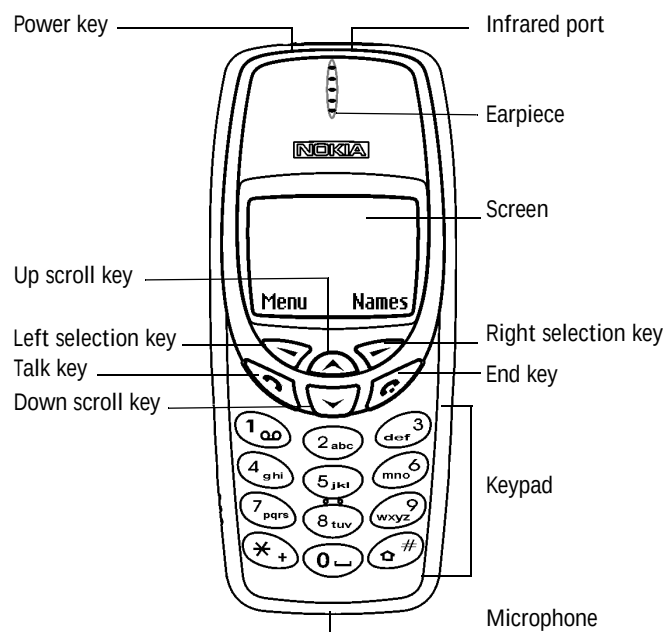
- 2 Press  to increase the contrast, and  to decrease it.
- 3 Press OK to confirm your changes, or press Back to leave the contrast at its current level.

4 Review the basics

This section gives you a brief introduction to the phone and shows quick steps for making, answering, and managing your calls. The rest of this guide provides complete details on phone use.

4

• YOUR NOKIA 3361 PHONE



• ABOUT THE ANTENNA

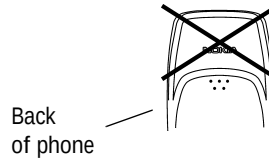
Your phone has a built-in antenna. As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on.

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

Hold the phone to your ear, placing your finger tips on the five raised dots, which are located below the antenna area on the back of your phone.



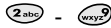
Caution: Watch for possible overheating. It is normal for your phone to become hot during use. If the phone becomes too hot, it automatically drops the current call and returns to the Start screen. You won't be able to make or receive calls until the phone cools.



• LEARN THE KEYS

Here is a summary of how to use the keys.

Key	How to use it
	Power: Press and hold to switch the phone on or off. Press briefly to access the list of profiles.
	Selection: Press to choose the option shown by the word above the key (for example, Menu).
	Talk: Press to make a call to the name or number shown on the screen or to answer a call. Press once at the Start screen to view the first in a list of numbers you've most recently dialed. Press to review the list. Press again to call a number shown on the list.

Key	How to use it
	End: Press to end a call or to silence the ring from an incoming call. Also, press to return to the Start screen.
	Number: Use keys 2 through 9 to enter numbers and letters. Press  if you want to insert a blank space while entering text.
	1 Key: Press and hold  to call your voice mailbox.
	Symbols: Press to enter special characters, such as punctuation marks and symbols.
 	Scroll keys: Press to scroll up or down through a menu list of options.

• MAKE AND ANSWER CALLS

Use this quick guide to make and answer calls.

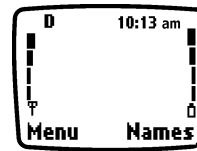
Switch the phone on (or off)	Press and hold the power key  for 2 seconds.  Warning: Do not switch on the phone when wireless phone use is prohibited or when the phone may cause interference or danger.
Make a call	1 Hold the phone as you would any other telephone, with the earpiece over your ear and the microphone near your mouth, or connect and use the headset. 2 Press number keys to enter a number, including area code if needed. 3 Press .

Answer a call	When your phone rings, press  .
End a call	Press  .
Avoid unintentional calls	Press Menu then  . A feature called Keyguard is now on. You cannot accidentally make a call.
Turn Keyguard off	Press Unlock then  .

- **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.



Start screen

Return to the Start screen

You can easily return to the Start screen from any activity other than an active call. To do so:

Press .

The phone clears (erases) text or information you may have been entering, except for new text messages, and the screen returns to its standby state, when you press .

IN THE START SCREEN

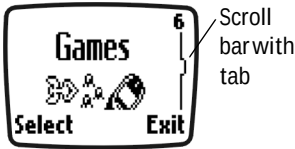
Start screen	Your service provider's name may appear here.
	Shows the signal strength of the wireless network where you are. The higher the bar, the stronger the signal.
	Shows the battery charge level. The higher the bar, the higher the power level in the battery.
Menu	The top level of menu choices on your phone. Press  (left selection key) to enter the menus. Navigate the menus using the scroll keys.
Names	The entry point for the phone book. Press  (right selection key) to enter the Names list (after you've added some entries to the phone book).
	Indicates that you are in a digital network.

4

Check the menu number and scroll bar

A **scroll bar** appears on the right side of the screen when you scroll through the main menus. The menu number is located at the top of the scroll bar.

A **tab** on the bar gives you a visual representation of your relative position in the menu structure.



• REVIEW PHONE SYMBOLS

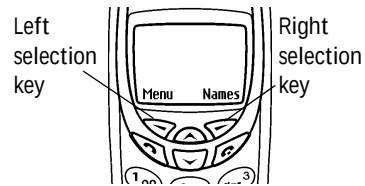
The following is a collection of the various symbols and signals you may see on your phone.

Symbol	What it means
	You have an active call.
	The phone is waiting for you to enter numbers or text.
	You have turned off your phone's keypad tones, warning tones, and message alert tones and set your ringing tone to Silent.
	You've activated Keyguard to help prevent any accidental keypresses.
	You have one or more voice messages waiting.
	You have one or more unread text messages waiting.
	Digital service is available.
ABC	Letters you enter will be uppercase (capital letters). Press and hold  to switch to lowercase.
abc	Letters you enter will be lowercase. Press and hold  to switch to uppercase.
Abc	Letters you enter will be in sentence case.
123	Characters you enter will be numbers. Press and hold  to switch back to letters.
	You are using predictive text. Available when entering reminder notes, or writing text messages. Press and hold  to switch to numbers.

Symbol	What it means
	You are using predictive text. Characters you enter will be sentence case. Press and hold  to switch to numbers.
	You are using predictive text. Characters you enter will be lowercase letters. Press  to switch to sentence case letters. Press and hold  to switch to numbers, or press and hold the number you want until it appears.
	You are using predictive text. Characters you enter will be numbers.
	You can enter only symbols, such as punctuation marks. Appears when you press and hold the  key while entering or editing text.
	The alarm clock is set.
	Lets you know that the picture message has been read.
	Lets you know that the picture message has not been read.
	Lets you know that you have a reminder which has not expired.
	Lets you know that you have a reminder which has expired.
	Indicates the you have a note.

• USE THE SELECTION KEYS

The two selection keys beneath the screen access the function shown above them on the screen.



- In this example, pressing the left selection key when the word Menu appears above it shows the first of many menus. You scroll through the menus using the  and  keys.
- If you press the right selection key  with Names above it, the phone book menu opens.

When this guide says, "Press Menu," it means, "Press the selection key beneath the word Menu."

• CHECK IN-PHONE HELP

Your phone provides brief descriptions of all menu options in an "in-phone" help system.

- 1 Scroll to a menu or submenu option.
- 2 Wait about 10 seconds.

A short message appears, describing the option and what it does.

- 3 Use  and  to scroll down through the longer descriptions.

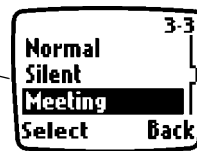


Note: Press Menu 4-3-4 (Menu >Settings > Phone settings > Help texts) to turn the in-phone help system (help texts) on or off.

• BROWSE PHONE MENUS

A **menu** is a list of choices you can make to change settings on your phone or use various phone features. Your phone has 11 menus, plus the phone book menu (Names). Each menu can contain several levels of submenus.

A menu



You can use menus and submenus two ways: by scrolling or by using a shortcut.

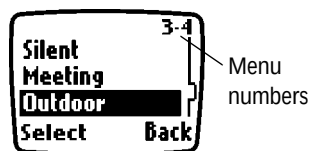
Scroll through menus

- 1 At the Start screen, press Menu, then scroll through the menus using the  and  keys.
- 2 Select Options, Select, or OK by pressing the selection key for the option you want.
- 3 Use the scroll and selection keys to navigate the submenu; press  to return to the Start screen.

4

Use a shortcut

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 turn on Automatic redial, press Menu 4-2-1-1(Menu > Settings > Call settings > Automatic redial > On).



TIPS

- You can scroll upward (backward, so to speak) as well as downward to find some of the most frequently used submenu options.
- 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.

• SHORTCUTS

4

1 MESSAGES

Write message	01-1
Write e-mail	01-2
Chat	1-3
Inbox	1-4
Outbox	1-5
Archive	1-6
Templates	1-7
Erase all	1-8
Voice messages	1-9
Listen to voice messages	1-9-1
Voice mailbox number	1-9-2

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
Dialed	2-4-3
Received	2-4-4
Call timers	2-5
Duration of last call	2-5-1
Duration of dialed calls	2-5-2
Duration of received calls	2-5-3
Duration of all calls	2-5-4
Life timer	2-5-5
Clear timers	2-5-6

3 PROFILES

Normal	3-1
Select	3-1-1

- Customize 3-1-2
 - Ring options 3-1-2-1
 - Ring tone 3-1-2-2
 - Ring volume 3-1-2-3
 - Vibrating alert 3-1-2-4
 - Message alert tone 3-1-2-5
 - Keypad tones 3-1-2-6
 - Warning tones 3-1-2-7
 - Profile name (not available with Normal profile)
- Silent 3-2
- Meeting 3-3
- Outdoor 3-4
- Pager 3-5

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 date and time 4-1-3
 - On 4-1-3-1
 - Confirm first 4-1-3-2
 - Off 4-1-3-3
- Call settings 4-2
 - Automatic redial 4-2-1
 - On 4-2-1-1
 - Off 4-2-1-2
 - Calling card 4-2-2
 - Current call timer 4-2-3
 - On 4-2-3-1
 - Off 4-2-3-2
- 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
Help texts	4-3-4
On	4-3-4-1
Off	4-3-4-2
Display contrast	4-3-5
Restore factory settings	4-3-6
Accessory settings	4-4
Headset	4-4-1
Profile in use with accessory ..	4-4-1-1
Automatic answer	4-4-1-2
Handsfree	4-4-2
Profile in use with accessory ..	4-4-2-1
Automatic answer	4-4-2-2
Lights	4-4-2-3
Loopset	4-4-3
Use Loopset	4-4-3-1
Profile in use with accessory ..	4-4-3-2
Automatic answer	4-4-3-3
TTY/TDD	4-4-4
Use TTY	4-4-4-1
Security settings	4-5
Call restrictions	4-5-1
Restrict outgoing calls	4-5-1-1
Restrict incoming calls	4-5-1-2
Access codes	4-5-2
Change security code	4-5-2-1
Network services	4-6
Voice privacy	4-6-1
On	4-6-1-1
Off	4-6-1-2
Network feature setting	4-6-2
Call forwarding	4-6-2-1
Call waiting	4-6-2-2
Send own caller ID	4-6-2-3
Own number selection	4-7

5	SYSTEM	
	Automatic	5-1
	Manual	5-2
	New search	5-3
6	GAMES	
7	CALCULATOR	
8	REMINDERS	
9	INFRARED	
10	SERVICES	
11	PREPAID	
	Check account balance	11-1
	Add money to account	11-2
	Save access phone numbers	11-3

Note: This 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.

- **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 ENTRY

EDIT NAME

ADD NUMBER

ERASE

One by one

Erase all

OPTIONS

Phone book view

Name list

Name only

Name+number

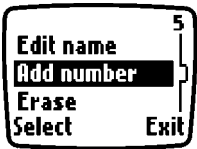
Memory status

1-TOUCH DIALING

5 Add information

This section gives detailed instructions for entering names, numbers, messages, and other information into your phone.

- “Store names and numbers” starting on page 39 tells you how to use and manage names and numbers.
- “Communicate with text messages” starting on page 85 tells you how to send, receive, and manage mobile messages.



- **ABOUT ENTERING LETTERS AND NUMBERS**

The kind of information you're entering (names, numbers, or text) determines which of the three ways that you use to enter information into your Nokia 3361 phone:

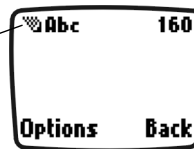
Method	The phone shows	Use for
ABC	ABC for all uppercase letters, abc for all lowercase letters, or Abc for sentence case	Writing names or text. Abc is the default (preset) method. You can also enter numbers in this mode when prompted to enter a name.
123	123 for numbers.	Entering numbers.
Predictive text	 for text in messages.	Writing messages and notes.

• ABC AND 123 METHODS

You can enter any combination of numbers and letters into phone book entries, Web addresses, and more using the ABC and 123 methods.

The phone shows the current method with an icon, or small picture, in the upper left corner of the screen.

Current entry method



Enter letters

When you are in a name box in the phone book, the phone shows the **ABC** icon. You use the phone's keypad to enter letters.

- 1 Find the key with the letter you want to enter.
- 2 Press the key repeatedly until the letter appears on the screen.
For example, press **2 abc** three times to enter the letter C.
- 3 Wait for the blinking cursor to reappear before you enter another letter, unless the letter is on a different key.

Example: To enter the name *Albert*:

Press 2 abc	A
Press 5 jkl 5 jkl 5 jkl	l
Press 2 abc 2 abc	b
Press def 3 def 3	e
Press 7pqrs 7pqrs 7pqrs	r
Press 8 tuv	t



Note: The default case in Abc mode is sentence case. Only the first letter of each word is capitalized.

Enter numbers

When you are in a number box in the phone book, the phone shows the **123** icon.

To enter numbers, simply press the numbers you want.

When in **ABC** mode, you can enter numbers by pressing the key multiple times until the number shows up, or you can press and hold the key. The method used to enter numbers depends on the type of information you are entering.

5

Enter punctuation and other characters

Depending on the language selected for your phone, the following characters may be available:

Key	Characters	Key	Characters
	, . ' ? ! @ ~ / - 1		P Q R S 7
	A B C 2		T U V 8
	D E F 3		W X Y Z 9
	G H I 4		Space, 0
	J K L 5		Press for symbols.
	M N O 6		Changes letter case.

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

ENTER SPACES AND PUNCTUATION

- Press  to enter a space between words.
- Press  briefly while in **ABC** to enter a period.

- Press  to show special characters. A screen appears with the available special characters. See “Use special characters in names and phone numbers” on page 34.

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

ERASE MISTAKES

If you make a mistake:

- Press  to erase one character to the left.
- Press Clear as needed to erase more than one character.

CHANGE LETTER CASE

- To switch between uppercase and lowercase letters, press . The **ABC** icon switches to **abc**, showing you are using lowercase letters.
- To enter a number while in letter mode, press and hold a key until the key's number appears on the screen.

Use special characters in names and phone numbers

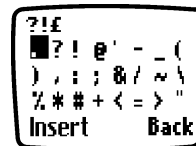
Your phone has special characters, symbols and punctuation that are available when writing text.



Note: The list of special characters may change depending on your service provider.

IN ABC

- Press . A screen appears with the available symbols.
- Use  and  to move to the character you want, then press Insert.



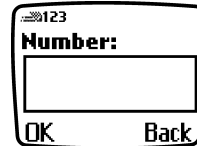
Note: For faster scrolling when viewing special characters, you can use the 2 (up), 8 (down), 4 (left) and 6 (right) keys.

IN 123

The  key inserts the following characters when you are prompted to enter a phone number. Press  until the character you want appears:

Add information

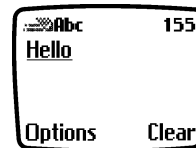
- * This character sends command strings to the network. Contact your service provider for details.
- + This character is used to link a 1-touch dialing location to the number currently being entered.
- p This character creates a pause that occurs when the phone dials a number. Numbers entered to the right of this special character are automatically sent as touch tones after a 2.5-second pause.
- w This character causes the phone to wait for you to press Send.



5

• WRITE WITH PREDICTIVE TEXT

When you're writing text messages on your phone, you can use the **predictive text** method of entering information. With predictive text, you need to press each number key only once for each letter. The phone will try to identify what you are writing based on the words already stored in your phone's memory.



The word shown on the screen changes after each keystroke (as shown in the example that follows). Since it's easy to get confused, you should try to disregard the word you're writing until you have entered all the characters.

Example: To write *Nokia* with predictive text turned on:

What you press	What you see
Press	O
Press	On
Press	Onl
Press	Onli
Press	Nokia

Keys and tools for predictive text

Key	Purpose
Keys with letters	Use for word entry. Press each key only once for each letter.
	Press to view the next matching word if the underlined word is not the word you intended. To change the underlined word, press  repeatedly until the word you want appears. You may also, press and hold this key for a list of symbols.
Spell	If predictive text doesn't recognize a word, you see Spell above the left selection key. Press Spell, enter the word you want to enter, and press Save.
	Press once to accept a word and add a space.
	Press and hold to enter a number. You see the 123 icon on the screen. Press and hold  again to write text letters.
Clear	Press once to delete the character to the left of the cursor.
	Press to add a punctuation mark.
	Press once quickly to switch the letter case. ABC indicates uppercase. abc indicates lowercase.
160	The maximum number of characters available. The character counter appears in the top right corner of the screen and counts down for each character you add.

Turn on predictive text input

- 1 Press Menu, then press Select.
- 2 When Write message appears, press Select.

Add information

- 3 Press Options, scroll to Predictive text and press Select.
- 4 Scroll to the language you want (for example, English).
- 5 Press Select.

T9 prediction on appears. (T9 is the technical name for predictive text input.) This means you can use the predictive text method to enter messages. In the text message window where you write, the predictive text icon  appears. Predictive text can be turned on and off by pressing  twice.

5

Turn off predictive text input

- 1 Repeat steps 1 through 5 in the section immediately above.
- 2 Scroll to T9 prediction off and press Select.

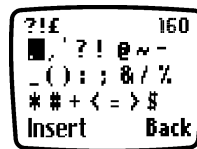
Tips for predictive text

INSERT A SYMBOL

- 1 Press  and hold.

The symbol screen appears, showing the list of special characters. For more information on special characters see “Enter spaces and punctuation” on page 33.

- 2 Scroll to the symbol you want and press Insert.



CHECK A WORD

When you've finished writing, make sure the underlined word is the word you intended to write.

If the word is correct:

- Insert a punctuation mark, if needed.
- Press  to confirm the change and enter a space.
- Start writing the next word.

If the word is not correct:

- Press  repeatedly until the word you want appears, and then press  to confirm it.

OR

- Press Options, scroll to Matches, then press Select. Scroll to the correct word and press Use.
- Start writing the next word.

When you enter a period to end a sentence, the phone switches to sentence case so that the first letter in the next word will be uppercase.

ADD A WORD TO THE PREDICTIVE TEXT DICTIONARY

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

- 1 Press Spell and enter the word(s) using standard text entry.
- 2 Press Save to save the word(s).

INSERT NUMBERS

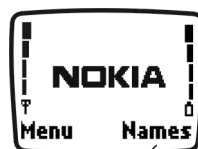
- 1 To add a number to the message, press and hold  until **123** appears on the screen.
- 2 Enter the numbers you want, then press and hold  to return to the **abc** method.

WRITE COMPOUND WORDS

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

6 Store names and numbers

Your phone includes a phone book that can store up to 200 entries (names and associated phone numbers). In addition, the phone book can store up to two numbers per name and a text entry, such as a postal address or an e-mail address.



6

Phone book

- 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 add the number to an existing name.

• OPEN THE PHONE BOOK

There is more than one way to view the names in your phone book:

- Press Names, select Find, enter the name, then press Find.
- Press Names, select Find, press List, then scroll through the names.
- At the Start screen, use  and  to scroll through the names.

• SAVE NAMES AND NUMBERS

You have more than one option for saving names and numbers.

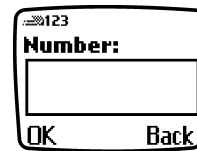
Quickly save a number and name

This method is called **quick save**.

- 1 Enter the phone number using the keypad.
- 2 Press Options, then select Save.
- 3 Enter a name and press OK.
- 4 Press Done to return to the Start screen.

Save an entry using the names menu

- 1 Press Names to enter the phone book.
- 2 Scroll to Add entry and press Select.
- 3 Enter a name and press OK.
- 4 Enter a number and press OK.
- 5 Press Done to return to the Start screen.



- **SAVE A TEXT ENTRY WITH A NAME**

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



Note: Text entries can only be added to existing contacts. For instance, you cannot enter an e-mail address until you have selected a name to add the address to.

- 1 Find the name to which you want to add text.
- 2 Press Details, then press Options.
- 3 Scroll to Add text, then press Select.
- 4 Scroll to the text type you would like to add (E-mail, Street addr., or Note), then press Select.
- 5 Enter the text, and press OK.
- 6 Press  to return to the Start screen.

- **RECALL INFORMATION**

You can recall numbers from the phone book several different ways.

Recall numbers from the phone book

- 1 At the Start screen, press Names.
- 2 Select Find and enter the name you need.
- 3 Press Find, then press .

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

6

• 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 entry	Allows you to add a new contact to your phone book.
Edit name	Allows you to edit an existing contact.
Add number	Allows you to add a number to an existing name in the phone book.
Erase	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.

Change phone book views

You can view your phone book in three different ways:

Name list	Shows all the names that are stored in your phone book. Three names appear 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.
Name+number	Shows individual names and numbers. Only one name and its corresponding number appears on the screen at a time.

In all views, you can use the scroll keys to move up and down through the list of names.

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.

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

- **ERASE STORED 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.

Store names and numbers

- 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 all details? appears.

4 Press OK.

OR

- 1 Press Names, scroll to Erase, and press Select.
- 2 Scroll to One by one and press Select.
You see your list of names.
- 3 Scroll to the entry you want to delete and press Erase.
- 4 When the message Erase all details? appears, press OK.

6

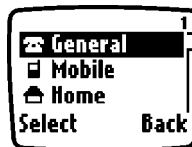
• ERASE THE ENTIRE PHONE BOOK

These steps erase all contacts in your phone book.

- 1 Press Names, scroll to Erase, 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.

• ADD A SECOND NUMBER TO A NAME

You can add a second number from the phone book, the Start screen, name recall or number type. Once you choose to add a number to an existing name, you can select one of the following **number type locations** in which to store the second number: General, Mobile, Home, Work, or Fax.



From the phone book

- 1 Press Names, scroll to Add number, and press Select.
- 2 Scroll to the name where you will add the number and press Add no.
- 3 Scroll to the type of number you are adding (General, Mobile, Home, Work or Fax), and press Select.
- 4 Enter the number and press OK.

From the Start screen

- 1 Enter the phone number using the keypad.
- 2 Press Options.
- 3 Scroll to Add to name and press Select.
- 4 Scroll to the name to which you want to add the number and press Add no.
- 5 Scroll to the desired number type and press Select.

By recalling the name

- 1 Recall the name to which you would like to add a second number.
- 2 Press Details, then press Options.
- 3 Scroll to Add number, then press Select.
- 4 Scroll to the desired number type and press Select.
- 5 Enter the number and press OK.

Change the number type

Once you have saved a name with two numbers, you can change the number type for either of the phone numbers. (For example, you can change the type if you saved a number as General and you want to change it to Home.)

- 1 Recall the name from the phone book.
- 2 Press Details, then scroll to the number you want to change.
- 3 Press Options, scroll to Change type, and press Select.
- 4 Scroll to the number type you would like and press Select.

Specify a primary number

If any names in your phone book have multiple numbers, it's a good idea to specify the number that you dial most often for that name as the **primary number**. By assigning the most-used number as primary, you are telling the phone to dial *that* number when you select the name for dialing—a great time saver when you dial names with two numbers.

- 1 Recall the name for which you want to select a primary number.
- 2 Press Details, then scroll to the number you want to set as the primary number.
- 3 Press Options, scroll to As primary no., and press Select.

6

- **CHECK MEMORY STATUS**

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

- 1 Press Names and scroll to Options.
- 2 Press Select.
- 3 Scroll to Memory status and press Select.

7 Check call history

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

- Missed calls
- Numbers you've dialed
- Numbers from which you've received calls
- Amount of time you've spent on calls



• CHECK MISSED, RECEIVED, OR DIALED CALLS

- 1 Press Menu 2 (Menu > Call log) to go to the call log, then press Select.
- 2 Use  and  to move to Missed calls, Received calls, or Dialed calls.
- 3 Press Select at the submenu you want.
For missed, received, and dialed calls, a phone number (or the name associated with a number in the phone book) appears.
- 4 Use  and  to scroll to the number or name you want, then press Options.
For missed, received, and dialed names or numbers, you have the choices shown in the list shown below.
- 5 Scroll to the option you want, then press Select.

Call time	Shows the time when the call was connected. (You must first set the phone's clock)
Send message	Allows you to write and send a text message to numbers listed in the call log
Edit number	Allows you to edit the number shown on the screen
Save	Saves the number in your phone book

Add to name	Adds the number to a name you've already entered in your phone book
Erase	Removes the number from the call log
View number	Shows a number when an associated name appears on the screen. This option works only if you have stored the associated number in the phone book.
Call	Activates a call to the number



Tip: To dial any number that appears on your phone's screen, press .

7

MISSED CALLS

Your phone stores the last ten numbers for calls you missed. When you miss a call(s), the message Missed calls appears on the screen with the number of calls missed.

You are notified of missed calls only if your phone was turned on in the original service area of your service provider.



Note: If you chose the Forward if not answered option in Call Forwarding, your phone treats these forwarded calls as missed calls.

DIALED CALLS, RECEIVED CALLS

Your phone stores the last ten numbers for calls you've dialed or received.

• 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, Dialed, and Received.

- 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.

• CHECK CALL TIMERS

Your phone uses **call timers** to track the amount of time you spend on each call. You can review phone use by checking the phone's call timers.

- 1 Press Menu 2-5 (Menu > Call log > Call timers).
- 2 Use  or  to scroll through the following options:

Duration of last call	Shows the time used for the last call made
Duration of dialed calls	Shows the time used for all outgoing calls since you reset the timers
Duration of received calls	Shows the time used for all received calls since you reset the timers
Duration of all calls	Shows the time used for all calls that have been made and received since you reset the timers.
Life timer	Shows the time used for all calls for the life of your phone. This option cannot be reset.
Clear timers	Clears (erases) all call timers for the currently selected phone number. Your phone includes separate timers for each number used, with the exception of the life timer.



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.

Check call history

- **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 4-2-3 (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 your phone to clear the current call time from the screen.

7

- **CLEAR CALL TIMERS**

- 1 Press Menu 2-5-6 (Menu > Call log > Call timers > Clear timers).

The Security code box appears.

- 2 Enter your security code and press OK.

8 Use advanced calling features

This chapter describes advanced calling features such as conference calling, call waiting, and credit cards for calls. Not all features described here are available in all wireless network systems.

• SET IN-CALL OPTIONS

Your phone allows you to use a number of features during a call. These features are known as **in-call options**.



Note: Many in-call options are network services features. To use these options, you must contact your service provider.

You cannot use all these options at all times. This section tells you when you can use a certain option.

- 1 To access an option during a call, press Options.
- 2 Choose from the following options.

Touch tones	Allows you to manually enter a touch tone string (series of tones) or search for a string in your phone
New call	Allows you to create a new call while in a call
End all calls	Ends all active calls
Names	Allows you to use the phone book. Once you open the phone book, pressing  will not close the phone book, but it will end the current call
Menu	Takes you to the main menus
Mute/unmute	Mutes the phone's microphone. If your phone's microphone has already been muted, Unmute appears instead of Mute. Press Select to choose either of these options. These options can affect the microphones of any accessories connected to the phone.

- **USE CALL WAITING**

If you have **call waiting**, your phone beeps during a call to let you know that someone else is calling you. Depending on your caller ID setup, the phone might also show the number of the incoming call.

Call waiting is not available in all wireless systems. Before you can use call waiting, you must contact your service provider to make sure this feature is available and turned on for your phone. Then you may need to activate the call waiting feature.

Store the call waiting feature code

8

- 1 Press Menu 4-6-2 (Menu > Settings > Network services > Network feature setting).

The Feature code box appears.

- 2 Enter the feature code your service provider gave you and press OK.
- 3 Scroll to Call waiting and press Select.
- 4 Make sure that Activate is highlighted and press Select.

Activate call waiting

- 1 Press Menu 4-6-4-1 (Menu > Settings > Network services > Call waiting > Activate).
- 2 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 .

Make a conference call

While in a call, you can call another number and “conference in” (add) a third party to the call.

The conference call feature varies based on wireless systems. Contact your service provider for details.

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

OR

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

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

- 2 When the third party answers, press  to connect all three parties.
- 3 To place one of the parties on hold, press .

If you press  a third time, the party you placed on hold rejoins the call, and the second party is placed on hold. Once you place one of the parties on hold, you are unable to rejoin all three parties.

- 4 To drop all parties, press .

Look up a number during a conference call

If you don't remember a number that you need to call while in another call and you know that this number is in your phone book, you can recall the number without having to end the current call.

- 1 During the call, press Options.
- 2 Scroll to Names and press Select.
- 3 Press Select at Find.
- 4 Enter a name and press Find, or scroll through the phone book.
- 5 Press Details.

• USE CALL FORWARDING

When you use [call forwarding](#), your network redirects incoming calls to another phone number.

Use advanced calling features

The call forwarding feature is not available in all wireless systems. Contact your service provider for details and availability.



Important: Call forwarding is a network-dependent feature and may not work the same in all networks. Contact your service provider for availability and for your network's feature codes.

Learn about call forwarding feature codes

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

8

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:

Feature code type	Description
Forward all calls	Forwards all incoming calls.
Forward if busy	Forwards calls only when you're on your phone.
Forward if not answered	Forwards calls if you don't answer.
Forward if out of reach	Forwards calls if you are out of reach of your wireless network or if your phone is turned off.
Cancel all call forwarding	Cancels all forwarding options that are currently active.

Store the call forwarding feature code

- 1 Press Menu 4-6-2 (Menu > Settings > Network services > Network feature setting). The Feature code box appears.
- 2 Enter the feature code your service provider gave you, then press OK.

- 3 Use  or  to scroll to Call forwarding and press Select.
- 4 Scroll to the type of forwarding that matches the feature code you entered, then press Select.
- 5 Make sure that Activate is highlighted and press Select.

Activate/cancel call forwarding

- 1 Press Menu 4-6-3 (Menu > Settings > Network services > Call forwarding).
- 2 Scroll to the desired call forwarding option, then press Select.
- 3 Highlight Activate and press Select.
- 4 In the Number box, either enter the number to which you want your calls forwarded (or press Find to recall a number from the phone book).
- 5 Press OK.

Your phone calls the network to activate (or cancel) the feature you've requested. The network sends a confirmation note when the feature has been activated (or cancelled) successfully.

• REDIAL AUTOMATICALLY

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 system is busy or unavailable, Automatic redial instructs your phone to retry the call.

ACTIVATE AUTOMATIC REDIAL

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

If the system is busy, your phone makes 3 additional call attempts. If you want to stop the automatic redial process prior to the last attempt, press .



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

• USE A CALLING CARD

You can use a calling card when you dial long distance calls. First you must store your calling card information in the phone. Your phone can store information for a maximum of four calling cards.

Save calling card information (step 1)

- 1 Press Menu 4-2-2 (Menu > Settings > Call settings > Calling card).
- 2 Enter your security code and press OK.
- 3 Scroll to card A, B, C or D and press Options.
- 4 Scroll to Edit and press OK.
The Dialing sequence field appears.
- 5 Press Select.
- 6 Use  or  to scroll through the list of dialing sequences, as described in the following list.

8

Dialing sequence	Use for cards that require you to
Access number + phone number + card number	Dial 1-800 access number, then phone number, then card number (+ PIN if required).
Access number + card number + phone number	Dial 1-800 access number, then card number (+ PIN if required), then phone number.
Prefix + phone number + card number	Dial the prefix (any numbers that must precede the phone number) and phone number you want to dial, then card number (+ PIN, if required).

- 7 Press Select.

Save calling card information (step 2)

The order of the following steps may vary, depending on which dialing sequence your card uses.

- 1 When prompted for the calling card's access number, enter the number and press OK.
This number is usually the 1-800 number that is listed on the calling card.
- 2 When prompted to enter a calling card number (usually shown on the front of the calling card) and PIN number, enter the number, and press OK.
- 3 Press OK again when the Save changes? message appears.
- 4 Use  or  to scroll to Card name, press Select, and enter the card name using your phone's keypad.
- 5 Press OK.

Choose a calling card to use

If you have more than one calling card, you'll need to choose one before making a call.

- 1 Press Menu 4-2-2 (Menu > Settings > Call settings > Calling card).
- 2 Enter your security code and press OK.
- 3 Scroll to the desired card and press Options.
- 4 Scroll to Select and press OK.

Make a calling card call

- 1 Enter the phone number, including any prefix (such as 0 or 1) your calling card might require when you make a calling card call.
See your calling card for instructions.
- 2 Press and hold  until your phone displays the message Card call and then Wait for tone, then press OK.
- 3 When you hear the tone from your calling card service, press OK.
- 4 After the tone, your phone displays the message Wait for tone, press OK again. Press OK.



Note: This procedure might not apply to all the calling card options that are programmed into your phone. Check your calling card for more information, or contact your long distance company.

- **SEND YOUR OWN NUMBER IN CALLER ID**

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

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



Note: Send own caller ID might not be available in your wireless system. Contact your service provider for details and availability. Also note that this feature is effective only when you call a number that is equipped with caller ID.

8

Before you can use Send own caller ID, you must first store its feature code. Otherwise, this feature might not appear on your phone's menu.

Store the feature code

- 1 Press Menu 4-6-2 (Menu > Settings > Network services > Network feature setting).
- The Feature code box appears.
- 2 Enter the feature code your service provider gave you and press OK.
- 3 Use  or  to scroll to Send own caller ID and press Select.
- 4 Highlight Yes and press Select.

Set the send own number feature

- 1 Press Menu 4-6-2-3 (Menu > Settings > Network services > Network feature setting > Send own caller ID).
- 2 Scroll to Yes (to show your number) or No (not to show it).
- 3 Press Select.
- 4 Enter the number you wish to call (or press Find to retrieve the number from the phone book), and press OK.

- **SELECT A PHONE NUMBER**

When you first activate your phone, your service provider programs the phone number and system information into your phone's memory. The number assigned to your phone provides service for only one service area.

Your phone can be activated in up to three different service areas, however. For example, your phone could be activated in Dallas, Toronto, 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, and if you travel outside your home system, you can choose another number. Only one phone number can be active at a time.



Note: It might not be necessary to have up to three numbers for your phone 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.

Select the phone number

- 1 Press Menu 4-7 (Menu > Settings > Own number selection).
- 2 Scroll to the phone number you want to use and press Select.

The first phone number on this list is the currently selected number. You need at least one active number to make calls.

- **SET TOUCH TONES**

Touch tones are sounds that are produced when you press the keys on your phone's keypad. Sometimes, touch tones are called DTMF tones.

You can use touch tones for many automated over-the-phone services such as checking bank balances and airline schedules and using your voice mailbox. Those features depend on operator's availability. Touch tones can be sent only when a call is active.

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	Tone sounds 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 when you press a key

8

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 sequences (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 Press w or p where needed.

w (wait): When you dial this phone number, your phone first dials the number, then waits (because of the w character) for you to press Send. When you press Send, the phone sends your touch tone.

p (pause): If you include a p character instead of a w, your phone pauses for 2.5 seconds and then automatically sends the touch tone.

- 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, use  or  to 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.



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

9 Use 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. Wireless network provider determines the final format.

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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.

- **SET UP YOUR VOICE MAILBOX**

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 1-9-2 (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.

- **SET GREETINGS**

Voice greetings may vary in different wireless systems. If you need information about how to record your greeting, 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 1-9-1 (Menu > Messages > Voice messages > Listen to voice messages).

Follow the prompts to review your messages.

10 Personalize rings and tones

- **WHAT IS A PROFILE?**

A **profile** is a group of settings you can use to customize the way your phone works. You can set your own preferences for these items:

Ringing options	Vibrating alert
Ringing volume	Keypad tones
Ringing tone	Profile name
Warning tones	
Message alert tone	



Your phone comes with five profiles:

Normal (default setting)	Outdoor
Silent	Pager
Meeting	

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You can customize any of the profiles. If at any time you want to return to the original settings, you can do so. See “Restore the factory settings” on page 73.

- **SELECT A DIFFERENT PROFILE**

- 1 Quickly press 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 select a profile.

- **CUSTOMIZE A PROFILE**

- 1 Press Menu 3 (Menu > Profiles).
- 2 Scroll to the desired profile in the list and press Select.
- 3 Select Customize to view the options for the selected profile.



Note: When you change a setting in the current profile, it affects only that profile. Your phone's normal settings do not change.

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

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 Select.
- 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.



Note: As you scroll through the ringing options, you can listen to a sample of each.

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.



Note: If you have already chosen a ringing option of either Silent or Beep once, the ringing tones are already turned off. See “Set ringing options” on page 64 for details.

- 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 Select.
- 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.

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Set a vibrating alert

Instead of choosing to have your phone ring, you can have it vibrate to indicate an incoming call.

- 1 Press Menu 3 (Menu > Profiles).
- 2 Use  or  to scroll to the profile for which you want to set the vibrating alert, and press Select.
- 3 Select Customize and press Select.
- 4 Scroll to Vibrating alert and press Select again.
- 5 Use  or  to scroll to On and press Select.

The phone does not vibrate when it is connected to or placed in any charging device.

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 Select.
- 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.

Set warning tones

You can set warning tones in your phone. **Warning tones** include the sounds your phone makes during error conditions, during confirmations, when a 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 Select.
- 3 Select Customize and press Select.
- 4 Scroll to Warning tones, then press Select.
- 5 Scroll to On and press Select.

If you do not want to use warning tones, you can turn them off by scrolling to Off and pressing 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 Select.
- 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.

• RENAME PROFILES

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You can rename any of the profiles except Normal. You may want to use your own name for one of the profiles. When you do, your name appears on the Start screen.

- 1 Press Menu 3 (Menu > Profiles).
- 2 Use  or  to scroll to the desired profile and press Select.
- 3 Select Customize, scroll to Profile name and press Select.
- 4 Enter the new name and press OK.

 Note: You cannot rename the Normal profile.

11 Personalize phone settings

You can change certain settings so that your phone suits your own needs and lifestyle. Changes you can make include changing the language on the screen, showing or hiding the clock, and setting up 1-touch dialing.

- **SET THE LANGUAGE**

You can set your phone to use a certain language.

Your possible choices are English, French, Spanish, Portuguese, Russian, Hebrew, Ukrainian, and Chinese. Languages vary in different regions. All these languages may not be available in your phone.

- 1 Press Menu 4-3-1 (Menu > Settings > Phone settings > Language).
- 2 Use  or  to scroll to the language you want to use and press Select.

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- **SET AND DISPLAY THE CLOCK**

Your phone has an internal clock that you can set to appear on the phone's screen. The clock is connected to an alarm clock. See "Set the alarm clock" on page 100 for details.

Set the clock

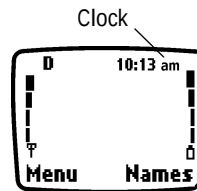
- 1 Press Menu 4-1-2 (Menu > Settings > Time settings > Clock).
- 2 Use  or  to scroll to Set the time and press Select.

The Time field appears.

- 3 Enter the time using an 00:00 format and press OK.

For example, to set your clock to 9:30, enter 09:30. If you set the time format for 24-hour time, enter the number the same way: 09:30 or 21:30.

- If you set time format to am/pm, use  or  to scroll to am or pm and press Select.



Personalize phone settings

- If you set the time format to 24-hour, the time is set as soon as you press OK after adjusting the time.

Show the clock on the Start screen

- 1 Press Menu 4-1-2 (Menu > Settings > Time settings > Clock).
- 2 To show the clock, scroll to Show clock and press Select.
Select Hide clock if the clock is showing and you don't want to see it.

Select the time format

You can change the way your clock shows the time, whether in am/pm (12-hour) or 24-hour format.

- 1 Press Menu 4-1-2 (Menu > Settings > Time settings > Clock).
- 2 Use  or  to scroll to Time format and press Select.
- 3 Use  or  to scroll to either am/pm or 24-hour and press Select.

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• SET THE CLOCK TO BE UPDATED BY THE NETWORK

You can set your phone's clock to be updated by the network, if available.

Turn on the network date and time update

- 1 Press Menu 4-1-3 (Menu > Settings > Time settings > Auto update of date and time), then press Select.
- 2 Scroll to On or Confirm first, then press Select.

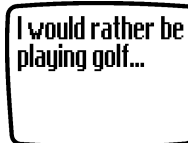
If you choose Confirm first, you will receive the message Update date and time of the phone? before the phone's clock is updated. Select OK to accept the update or Back to reject it.

Turn off the network date and time update

- 1 Press Menu 4-1-3 (Menu > Settings > Time settings > Auto update of date and time), then press Select.
- 2 Scroll to Off, then press Select.

• ADD A WELCOME NOTE

You can set your phone to show a brief welcome note each time you switch on your phone. The note can include your name, a reminder, or more. The maximum length of this note is 30 characters.



- 1 Press Menu 4-3-3 (Menu > Settings > Phone settings > Welcome note).
- 2 Enter the text of the welcome note.
As you enter characters, they appear to the left of the cursor. Press Clear to delete characters to the left of the cursor. Press or to move the cursor right or left.
- 3 Press Options.
- 4 Scroll to Save and press Select.
If you ever want to erase the welcome note, select Erase instead.

• USE SPEED DIALING

You must store names and numbers in your phone book before you can use speed dialing (1-touch dialing).

To set up speed dialing, you assign a name from the phone book to a 1-touch dial location, using your phone's keys through . When you press and hold the key, the phone automatically dials the associated number.

- : This key is used exclusively to dial your voice mailbox.
- : You can use this key to dial a customer care operator. See "Contact your service provider" on page 11 for details. You can overwrite this feature and assign a 1-touch dial location to the key.

Set up a speed-dial key

- 1 Press Names and scroll to 1-touch dialing.
- 2 Press Select.
- 3 Use or to scroll to the first number that includes the message (empty) and press Assign.

Personalize phone settings

- 4 Use  or  to scroll to the name and number to which you want to assign this key and press Select.
Repeat these steps for as many keys as you want to set up.
- 5 To call a number using speed dialing, press and hold the appropriate key for a few seconds.
The phone dials the number.

Change speed dialing numbers

After you have assigned a speed dialing number to a key, you can change key and number associations 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 Enter the new number or recall a number from the phone book.
- 5 When you've entered the number, press OK.

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OR

If you've found a number in the phone book, press Select.

If the name you selected has more than one number, scroll to the number you want and press Select.

Erase speed dialing numbers

You can erase speed dialing key assignments at any time.

- 1 Press Names.
- 2 Use  or  to scroll to 1-touch dialing and press Select.
- 3 Scroll to the key you want to erase and press Options.
- 4 Scroll to Erase and press Select.
- 5 Press OK.

• SET YOUR PHONE TO ANSWER AUTOMATICALLY

You can set your phone to answer incoming voice calls after one ring. This setting works only when your phone is connected to a headset or to an approved handsfree car kit that is equipped with the ignition sense option, with the ignition on.

- 1 Press Menu 4-4-1-2 (Menu > Settings > Accessory settings > Headset > Automatic answer).
- 2 Press Select.
- 3 Use  or  to scroll to either On or Off and press Select.



Note: Handsfree and Headset do not appear unless your phone has already been connected to a car kit or headset.

• SET THE LIGHTS (CAR KIT ONLY)

While your phone is connected to a car kit, you can set the phone's lights two ways. You can either have the lights on only when you use the phone or have them on the whole time the phone is in car kit mode.



Note: This setting works only when your phone is connected to a car kit.

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



Note: Handsfree does not appear in the list unless the phone has been connected to a car kit.

- 2 Scroll through your choices in the list below, and press Select.

Automatic	Instructs the phone to turn off the lights within 15 seconds if no keys are pressed.
On	Instructs the phone to leave the lights on the entire time that your phone is connected to the car kit.

-

- **RESTORE THE FACTORY SETTINGS**

You can change the default (factory) settings for your phone. Later, you can return them to the original settings when needed.



Note: The phone does not reset the memory, timers, language selection, and security code. However, any profiles you have modified are reset when you restore your settings.

- 1 Press Menu 4-3-6 (Menu > Settings > Phone settings > Restore factory settings).
- 2 Enter your security code and press OK.

12 Manage phone security

Your phone has a versatile security system that is intended to prevent unauthorized use of the phone.

You cannot activate or use certain phone features without having first successfully entered your phone's security code.

- The default (preset) security code is 12345.
- Nokia highly recommends that you immediately change this code. Then, write down and store the new code in a safe place, away from your phone.



TIPS

- When you enter the security code, a * appears on the screen each time you press a key. The * prevents others from seeing your code.
- If you enter the wrong security code five times in a row, your phone won't accept any entries for the next five minutes. However, if you realize that you've entered the code incorrectly before pressing OK, you can use Clear to erase the code, digit by digit, beginning with the last digit.

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• CHANGE YOUR SECURITY CODE

It's a good idea to change your security code so that others who know the default code cannot enter the correct code.

- 1 Press Menu 4-5-2-1 (Menu > Settings > Security settings > Access codes > Change security code).

The Security code box appears.

- 2 Enter the default security code and press OK.
- 3 At the message Enter new security code, enter your new security code and press OK.
- 4 At the message Verify new security code, enter your new security code again and press OK.

The message Security code changed appears.

If you have changed your security code and don't remember the new code, contact your service provider. Once you have changed your security code, the default setting is no longer valid.

- **LOCK THE KEYPAD**

When you lock the keypad, you prevent accidental keypresses — for example, when your phone is in a pocket or purse. This feature is called **Keyguard**.



Note: Keyguard is automatically turned off when the phone is connected to a car kit.

Activate Keyguard

At the Start screen:

Press Menu then press .

When Keyguard is turned on, you might be able to make calls to the emergency number that is programmed into your phone. For example, you could dial 911 and press .

Deactivate Keyguard

Press Unlock then press .

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Answer a call while Keyguard is active

During an incoming call, the keypad automatically unlocks.

- Press  or  to answer the call.

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.

- **RESTRICT CALLS**

You can restrict incoming and outgoing calls. To restrict calls, you create a list of numbers and apply the appropriate restriction.

Before you define restrictions for outgoing calls, two restriction options are available: Select and Add restriction. The maximum number of call restrictions you can define is ten.

When outgoing calls are restricted, you might be able to make calls to the emergency number that is programmed into your phone. For example, you could dial 911 and press .

Add a number to the call restriction list

You can create a list of restrictions for both outgoing and incoming calls.

- 1 Press Menu 4-5-1 (Menu > Settings > Security settings > Call restrictions).
- 2 Press Select, enter your security code, and press OK.
- 3 Scroll to Restrict outgoing calls or Restrict incoming calls, then press Select.
- 4 Scroll to Add restriction, then press Select.
- 5 Enter the number you want to restrict, or recall the number from the phone book, then press OK.
- 6 Enter a name for the restriction, then press OK.

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

After you have used 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 or incoming calls list
Add restriction	Allows you to add a call restriction
Edit	Allows you to edit an existing call restriction
Erase	Erases an existing call restriction

Restrict outgoing calls

- 1 Press Menu 4-5-1 (Menu > Settings > Security settings > Call restrictions).
- 2 Press Select, enter your security code, and press OK.

Manage phone security

- 3 Scroll to Restrict outgoing calls and press Select.
- 4 Scroll to Select to choose from your list of call restrictions.
If you have not added any restrictions, your only option will be All calls.
- 5 Scroll to the restriction you want to activate and press Mark.
- 6 Press Done. The message Save changes? appears.
- 7 Press Yes.

When you or someone else attempts to place a call to a number you have restricted, the message Call not allowed appears, and the call is cancelled.

Restrict incoming calls

- 1 Press Menu 4-5-1 (Menu > Settings > Security settings > Call restrictions).
- 2 Press Select, enter your security code, and press OK.
- 3 Scroll to Restrict incoming calls, then press Select.
- 4 Scroll to Select and press Select to choose from your list of call restrictions.
If you have not added any restrictions, your only option will be All calls.
- 5 Scroll to the restriction you want to activate and press Mark.
- 6 Press Done. The message Save changes? appears. Press Yes.

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Turn off call restrictions

Turn off restrictions by following the same steps you used to restrict incoming or outgoing calls. When you get to step 5,

- Scroll to the restriction you want to *deactivate* and press Unmark.
- Press Done. You're asked if you want to save changes. Press Yes and the restriction is turned off.

13 Manage reminders and notes

Reminders and notes help you keep track of important events or tasks. A reminder can have a date, time, and alarm attached to it. If you have not set your clock, you will be prompted to do so when you enter your first reminder. Predictive text is available with this feature. See “Write with predictive text” on page 35 for more information.

• ADD A REMINDER

- 1 Press Menu 8 (Menu > Reminders), then press Options.
 - 2 Scroll to Add reminder and press Select.
 - 3 Enter the subject for the reminder and press Options. The following options are available:
 - Save: Saves the reminder.
 - New line: Moves the cursor to the next line.
 - Predictive text: Allows you to turn predictive text on or off. If predictive text is activated, the predictive text options will be available.
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Highlight Save and press Select.

- 4 Enter the date and press OK, then enter the time and press OK.
If you have programmed your phone's clock for am/pm format, you will then have to select am or pm.
- 5 Next, you have the option to set an alarm for your reminder.
 - If you don't want an alarm, highlight Alarm off and press Select.
 - If you choose to have an alarm, highlight Alarm on and press Select. The option list gives you several choices.
You can set the alarm to go off 5, 10, 15 or 30 minutes before the time you set for the reminder.
You can choose At event time to set the alarm to go off at the same time as the reminder.
You can choose Other to define your own time for the alarm.
Scroll to the option you want and press Select.

- **ADD A NOTE**

- 1 Press Menu 8 (Menu > Reminders). Press Options, scroll to Add note, then press Select.
- 2 Enter the note, then press Options.
 - Save: Saves the note.
 - New line: Moves the cursor to the next line.
 - Predictive text: Allows you to turn predictive text on or off. If predictive text is activated, the predictive text options will be available.
- 3 Scroll to Save, then press Select.

- **SEND AND RECEIVE A REMINDER OR NOTE**

You can send and receive reminders and notes in the same way you send and receive business cards, by text messaging (SMS) or by Infrared. For more information about these methods of sending and receiving information, see "Infrared" on page 104 and "Communicate with text messages" on page 85.

Send a reminder or note

- 1 Press Menu, scroll to Reminders, and press Select.
- 2 Scroll through your list of reminders and notes, highlight the one you want to send, and press Options.
- 3 Scroll to Send, then press Select.

You will have the options Send via IR, Send as note, or Send as text.
- 4 Select the method you would like to use, then follow the phone's prompts to send the reminder or note.

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Receive a reminder or note

- 1 The message Reminder received appears when someone sends you a reminder or note.
- 2 Press Show to view the note.

OR

Press Exit to delete the note. The message Discard note? appears. Press OK.

- 3 Press Options to view the available reminder or note options.
 - 4 Press Select when you have highlighted the option you want.
- See the next section for a list of available options and their descriptions.

- **CHOOSE OTHER REMINDER AND NOTE OPTIONS**

When you view a reminder or note, or when you view the list of reminders and notes, you may have some of the following options.

Add reminder	Allows you to add a reminder.
Add note	Allows you to add a note.
Erase	Erases the reminder or note.
Erase opt's	Allows you to choose from two options for erasing multiple reminders and notes. All expired: Erases all reminders that expired. All at once: Erases all reminders and notes.
Edit	Allows you to edit the reminder or note.
Send	Allows you to send the reminder or note.
View	Allows you to view the note or reminder.
Date and time	Allows you to set the current date and time. The time setting will change the current time set for the clock.

14 Use 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 the service provider for details.



- **MANAGE PREPAID SERVICE**

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

ACTIVATE PREPAID

To activate prepaid services, enter the following sequence:

* * # 7 p p r s m n o 6 # (*#7766#)

The message Prepaid menu enabled appears on the screen.

DEACTIVATE PREPAID

To deactivate prepaid services, enter the following sequence:

* * # 7 p p r s m n o 3 d e f 3 # (*#77633#)

The message Prepaid menu disabled appears on the screen.

USE THE MENU

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

- **SAVE YOUR ACCESS NUMBERS**

You can check your prepaid balance and add money when the balance runs low. 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 11-3 (Menu > Prepaid > Save access phone numbers).
- 2 At Save access phone numbers, press Select.
- 3 Scroll to Replenish phone number, press Select, enter the access number you got from your service provider, and press OK.
- 4 Scroll to Balance phone number, enter the balance number you got from your service provider, and press OK.

The message Saved appears to confirm each entry.

• ADD MONEY TO YOUR ACCOUNT

To add money, you must first have saved the correct access number in your phone. (See the previous section for instructions.)

- 1 Press Menu 11-2 (Menu > Prepaid > Add money to account).
- 2 At Card number, enter your prepaid card number and press OK.
- 3 When you see the message Listen for prompt then press OK, press OK.
When the addition to your account is complete, a voice message gives you the new balance.
- 4 When you see the message Wait for prompt, then press End, press End call.

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• CHECK YOUR PREPAID BALANCE

You can check the balance remaining in your prepaid account, free of charge. Contact your service provider for the toll-free access number used to check the balance.

Check the prepaid balance

- 1 Press Menu 11-1 (Menu > Prepaid > Check account balance). Press Select.
The phone calls your service provider. The screen shows Calling and then Checking balance. A voice message gives you the current balance.
- 2 Press  to terminate the call.

15 Set network services features

You can subscribe to various network services. Availability depends on your service provider. Your phone supports the network services listed here. These services are not available from all providers or in all areas.

- Voice privacy
- Call waiting
- Call forwarding
- Sending own number

Feature code: When you subscribe to any of these services, your service provider gives you a *feature code* that activates each service. Deactivation codes are used to deactivate each service. After you store the appropriate code, your phone sends the code to the network to verify that you're using the correct feature code.

Menus for network features: Menus for the services described here appear on your phone only after you've stored the appropriate feature code. You can use these menus to activate and deactivate the network services.

Voice privacy: The voice privacy feature does not require you to store a feature code before using it.

More than one number? If your phone has more than one phone number assigned to it, stored feature codes apply only to the primary phone number.

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- **SET UP HOW YOUR PHONE SELECTS A NETWORK**

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.



Note: If you have two phone numbers, you can use the Manual and New search options only with your primary phone number.

• USE YOUR PHONE WHILE TRAVELING

When your phone is outside its home area, the phone is said to be *roaming*. Calls made or received while you are roaming may cost more than calls made in your home area.

- When your phone begins roaming, the phone beeps once and may show the word ROAM on the phone's screen, depending on how roaming works with your phone.
- When your phone is not roaming, it either shows the word HOME or the name of your service provider.
- When you're roaming in some systems outside your home area, the system in which you're traveling (the host system) may not recognize your phone. You may not be able to place a call.

Contact your service provider for more specific information on how roaming works with your phone and for information about coverage limitations.

16 Communicate with 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. You can also send messages as e-mail.



- **ABOUT TEXT MESSAGES**

Message recipients: The phone to which you send a text message must support text messages. It may not be possible to send an SMS text message to someone's phone who has an account with a different service provider.

However you may be able to send a text message as e-mail to someone who has an account with a different service provider. For more information on e-mail SMS messaging, please see "Send and receive e-mail messages" on page 92.

Message length: The maximum length of a received text message is 160 characters.

Network variations: The maximum length of a text message depends on the capabilities of the network from which the message originated. Also, text message format may occasionally be different, as messages can originate in networks other than your own.



Note: You can send mobile messages if you have subscribed to the mobile messaging service offered by your service provider and the network in which you are using your phone supports mobile messaging.

Contact your service provider for more information about text message services.

• **USE FOLDERS FOR TEXT MESSAGES**

Your phone has four folders for managing text messages.

Inbox	The inbox stores messages you receive. Messages remain in the inbox until you delete them or save them in the archive folder.
Outbox	The outbox stores messages you have written, sent, edited and forwarded.
Archive	The archive folder stores messages you want to save.
Templates	The templates folder stores message templates you create. A template is like a form letter—a message you can use many times.

Text message capacity

Your phone can store up to 35 text messages. This is a combined total of messages that are stored in your inbox, outbox, and archive folders. In addition, your phone stores up to 10 custom templates in the Templates folder.

• **WRITE AND SEND A TEXT MESSAGE**

When writing text messages, use the predictive text method for fast text entry. For details, see “Write with predictive text” on page 35.

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- 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, press Options, scroll to Send, then press Select.
- 4

Enter or recall the recipient’s phone number, then press OK.
Sending message appears. When the message is successfully sent, Message sent appears.



Communicate with text messages



Tip: If you need to exit while writing the message, press  at any time. Later, return to the write message screen to finish writing the message. If you turn off the phone without saving the message, the message will be lost.

Options when writing a text message

Send	Sends the message.
Settings	Allows you to choose options for the message: Callback no., Reply req., Read receipt, and Urgent. The availability of these options may vary depending on your service provider.
Save	Saves the message.
Clear text	Clears the message screen.
Exit editor	Takes you back to the Write message screen.
Insert name	Allows you to insert a name from the phone book.
Insert number	Allows you to insert a number from the phone book.
Use template	Allows you to insert a template.
Insert word OR Edit word	If predictive text (T9) is activated, you can manually spell a word and insert it into your message. This option is not available unless predictive text is activated.
Insert symbol	Takes you to the list of special characters. Available when predictive text (T9) is activated.
Predictive text	Activates or deactivates predictive text.
Matches	Other word choices while using predictive text.

• RESEND A MESSAGE FROM THE OUTBOX

A message in the outbox shows one of two icons:

- The  icon shows that you have sent the message to the text message center.
- The  icon shows that you have tried to send the message, but the sending attempt was unsuccessful.

1 Scroll to the message, then press Select.

2 Press Options.

3 Scroll to Send, and press Select.

4 Enter the number to which you want to send the message, and press OK.
OR

Find the number to which you want to send the message, and press Select.

• RECEIVE A TEXT MESSAGE

When you receive a text message, the phone plays a message alert tone and the text message icon  appears, along with one of the following messages:

- Message received: Means that you have an unread message or page. If you have more than one message or page, the appropriate number is listed before this message.

When you receive the above message along with another message call, followed by a name or number, the message is a page. Only the names of people who are stored in your phone book appear.

- New emergency message: Means that an emergency message or page was sent by someone via the service provider. Emergency messages are sent only in situations where life or property are in immediate danger. Emergency messages are listed first and override all other messages.
- Urgent: Means the message has a high priority. These messages are indicated by an exclamation point (!).

• **READ A TEXT MESSAGE**

- 1 Press Show.
- 2 Press Options for a list of choices you have while reading the message (see the list at the end of this section).
- 3 Press Select when the option you want is highlighted.

In your inbox, text messages are shown in the order in which they were received, unless one is an emergency message. An emergency message overrides any other message and appears first.

OPTIONS FOR A MESSAGE

When you press Options while reading a message, you have the following choices.

Erase	Erases the current message.
Reply	Provides a screen where you can write a reply.
Chat	Allows you to start a chat session.
Use number	Calls the person who sent you the text message, if their phone number is included in the message. You can also press  while the message is open to dial the number. If more than one number is on the screen, the numbers appear in a list. Scroll to the phone number you want to call and press .
Forward	Forwards the message to another person. That person must have the appropriate message service.
Edit	Allows you to edit the message.
Save	Saves the message in the archive folder.
Rename	Allows you to rename the message.

- **SAVE A MESSAGE IN THE ARCHIVE FOLDER**

When you send or receive a text message, you can save it in the archive folder. Messages can be saved from the inbox and the outbox.

Save a message

- 1 Highlight the message you wish to save and press Select.
- 2 Press Options.
- 3 Scroll to Save, then press Select.

The message Saved to archive appears.

- **WHEN YOUR PHONE'S MEMORY IS FULL**

When your phone's message memory is full, one or more messages of the lowest priority are automatically deleted. Messages are not deleted from your phone's archive and templates folders.

- If after deleting messages the memory is still full, your phone shows the message No space: message waiting. The  icon blinks.
- Clear the notification by pressing OK.

- **ERASE MESSAGES**

You can erase a message individually or erase the contents of an entire folder at once. You also have the option of erasing all read messages from all folders at the same time.

Erase a message

- 1 While reading a message, press Options.
- 2 Scroll to Erase, then press Select.
Your phone asks you to confirm that you want to erase the message.
- 3 Press OK.

Erase messages from folders

- 1 Press Menu 1-8 (Menu > Messages > Erase all). You will have the following options: All read, Inbox, Outbox, and Archive.
- 2 Scroll to the folder that you want to empty all messages from and press Select.

All messages in that folder will be deleted. If you choose All read, every message you have read will be deleted simultaneously from the inbox, outbox and archive folders.
- 3 Enter your security code and press OK.

• REPLY TO A MESSAGE

- 1 While reading a message, press Options.
- 2 Scroll to Reply, press Select, and choose one of the following reply options:
 - As message
 - As e-mail
Once you select the type of reply, choose one of these options:
 - Blank screen
 - Original text (Not available when replying to e-mail.)
 - Template
 - Yes
 - No
 - Ok
- 3 Edit your reply, then press Options.
- 4 Scroll to Send, then press Select.
The phone shows the return number.
- 5 Edit the number if needed, then press OK.

- **FORWARD A MESSAGE**

- 1 While reading a message in the inbox, press Options.
- 2 Scroll to Forward, press Select, and choose whether your message should be sent as a text message or as e-mail.
- 3 Press Options, or edit the message and press Options.
- 4 Scroll to Send, then press Select.
- 5 Enter or recall the recipient's phone number, then press OK.

- **SEND AND RECEIVE E-MAIL MESSAGES**

You can use your phone to send and receive e-mail messages. This service depends on operator's availability.

Send an e-mail message

- 1 Press Menu 01-2 (Menu > Messages > Write e-mail).
- 2 Press Select.
The e-mail address box opens.
- 3 Enter the e-mail address, or press Find.
 - If you press Find, enter the first few letters of the name you want and press Select when you find the name. The address appears in the recipient address box. Press OK.
 - The phone lists all the names from your phone book. If you select a name for which there is no e-mail address, your phone shows the message, No e-mail addresses found.
 - If you enter the e-mail address, press OK when you've finished.
The subject box opens.
- 4 Enter a subject and press OK.
- 5 When the message screen appears, enter your message.
The maximum number of characters for message length varies; check with your service provider for details.
You can turn on predictive text input if you wish. For information, see "Write with predictive text" on page 35.

- 6 When you've finished the message, press Options, select Send e-mail, and press Select.

A status message tells you the mail is being sent.



Note: If your phone asks for an e-mail gateway number, contact your service provider.

- **REPLY TO OR FORWARD AN E-MAIL MESSAGE**

- 1 If the message is not on the screen, press Menu 1-4 (Menu > Message > Inbox).
- 2 Select the message you received and press Select.
- 3 Press Options, scroll to Forward or Reply, and press Select.
- 4 Scroll to As e-mail and press Select.
- 5 Select the format.
- 6 Follow steps 3 through 6 in "Send an e-mail message."



Note: If your phone asks for an e-mail gateway number, contact your service provider.

- **RECEIVE AN E-MAIL MESSAGE**

To receive e-mail messages, you need the special e-mail address provided by your wireless service provider. You can give this address to people who need to reach you by e-mail. They can then send e-mail messages to you from their computers or other e-mail devices.

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- 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.
- See your service provider to get the e-mail address for your phone and for more information on using e-mail on the service.

- **USE TEMPLATES**

You can view, edit and erase the preset messages, or [templates](#), that are available for writing a message. Templates can be used when you write, reply to, or edit a message.

Work with templates

- 1 Press Menu 1-7 (Menu > Messages > Templates) and press Select.
- 2 Scroll to the template you want and press Select.
- 3 Press Options to view the menu list:

Edit	Allows you to edit the template before sending.
Rename	Allows you to rename the template.
Send	Sends the template as a text message.
Use number	Allows you to use a number.

- 4 Select the option you want and follow the phone's prompts to complete your task.

Insert a template when writing a new message

- 1 Press Menu 01 (Menu > Messages > Write message) and press Select.
- 2 Press Options, scroll to Use template, and press Select.
- 3 Scroll to the template you want and press Select.
- 4 Continue as you would when sending a new text message.



Note: You can also insert a template when replying to or editing a message.

• CHAT WITH OTHER PHONE USERS

You can have a direct conversation with another person using the chat feature. Chat has distinct advantages over text messaging, such as faster send and reply, as well as direct, uninterrupted communication with your chat partner. To use chat you must subscribe to text messaging, which is network dependent. Contact your service provider for more information.

Start a chat session

- 1 Press Menu 1-3 (Menu > Messages > Chat), then press Select.
- 2 Enter the other party's phone number or recall it from the phone book and press OK.
- 3 At My chat name: enter a name for the chat session and press OK.
- 4 Write your chat message, press Options, then press Send.
- 5 Press OK to clear the screen and reply to the message.
- 6 To view the previous message or edit your chat name, press Options and select Chat history or Chat name.



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

• USE PICTURE MESSAGES

You can attach a picture to a text message or you can use templates to send pictures to your friends and family. You can also save new pictures in the Templates folder. Picture messages have options that are similar to text messages.



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.

Notes about picture messages

- Your phone offers five built-in picture message templates under Messages > Templates, and space for up to five other picture messages.
- Picture messages can be sent from phone to phone, or they can be downloaded, depending on the wireless services offered by your provider.
- Only phones that offer picture messaging can receive and display the images.
- Each picture message is made up of a text message. Therefore, sending one picture message may be equivalent to sending up to six text messages. The size of the picture message depends on the size of the image you are sending.

Send picture messages

- 1 Press Menu, then Select.
- 2 Scroll to Templates, then press Select.
- 3 Scroll to the picture you want to send, and press Select.
- 4 Press Options, scroll to Send, then press Select.
- 5 Recall or enter the phone number of the recipient.
- 6 Press OK.

Attach a picture to a text message

For a list of options while composing a text message, see "Options when writing a text message" on page 87.

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

Preview, change, or erase a picture message

- 1 After a picture has been attached to your text message, press Options at the message edit screen.
- 2 Scroll to one of the following options and press Select.
 - a) Preview - Previews the attached message before sending. Press Back to exit.
 - b) Change picture - Takes you back to the picture list. Scroll to highlight a new picture. Press View then press Use to link the new picture to your message.
 - c) Delete picture - Deletes the attached picture from your text message.

Receive picture messages

- 1 When your phone displays **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 THE PICTURE

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

17 Use special features

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

- **SEND AND RECEIVE BUSINESS CARDS**

Your phone can send or receive electronic business cards. A [business card](#) consists of a name, phone number, and text entry. You can save received business cards in your phone book.

Send a business card

- 1 Find the name in your phone book.
- 2 Press Details.
- 3 Press Options and scroll to Send bus. card.
- 4 Press Select.
- 5 Scroll to SMS and press Select.
(SMS stands for *short message service*.)
- 6 Choose Primary no. or All details, then press Select.
This step appears only if you have two numbers saved with the name or if you have a text entry.
- 7 Enter or recall the phone number to which you want to send the business card, and press OK.



Note: You can also send and receive business cards using infrared (IR). See “Send and receive information” on page 105.

View a received business card

When you receive a business card, the phone shows the message Business card received.



Note: If you press Exit at any time before you save the business card, the message Discard business card? appears. You have the option of OK or Back.

- 1 When your phone shows Business card received, press Show.
- 2 Scroll through the available information.

Save a viewed business card

- 1 While viewing the business card, press Options.
- 2 Scroll to Save, then press Select.

Delete a viewed business card

- While viewing the business card, press Options.
- Scroll to Discard, then press Select.

• DOWNLOAD (TRANSFER) RINGING TONES

You can download (transfer) up to ten ringing tones to replace the personal entries in your list of tones. **Ringing tones** can be ringing sounds or short tunes. For details about this network service, contact your wireless service provider, who can also point you to Web sites that offer these tones.



Note: If you press Exit at any time before you save the ringing tone, the message Discard received ringing tone? appears. You have the option of OK or Back.

Receive a ringing tone

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If you have this service and your phone receives a downloaded ringing tone, your phone shows the message Ringing tone received.

- 1 Press Options.
You have the options of Playback, Save tone, and Discard.
- 2 Scroll to Playback and press Select.
The phone plays the ringing tone until you press Quit.

Save a received ringing tone

- 1 If you want to save a ringing tone after you've listened to it, press Quit.
- 2 Scroll to Save tone, then press Select.
- 3 Choose the ringing tone you want to replace—either an empty personal placeholder, if any are remaining, or a tone you've downloaded previously.
- 4 Press Select.

The phone saves the new tone in the list of ringing tones. For instructions on changing the ringing tone on your phone, see "Set the ringing tone" on page 65.

Discard received ringing tones

You can discard a ringing tone if you don't want to save it.

- Press Exit.

OR

- Press Options, scroll to Discard, then press Select.

• SET THE ALARM CLOCK

The alarm clock is based on the time settings in your phone's clock. You can set the alarm clock to ring at any time, even if your phone is turned off.

The alarm clock's volume is determined by the phone's current volume and tone settings.



Warning: Do not switch on the phone where wireless phone use is prohibited or where it might cause interference or danger. Even if you are merely setting the clock, your phone is active when it's on.

Set the time

To set the time, see "Set the clock" on page 68.

Set the alarm clock

- 1 Press Menu 4-1-1 (Menu > Settings > Time settings > Alarm clock).
The Set alarm time message appears.
- 2 Enter the time for the alarm and press OK.
Use the hh:mm format (03:40, for example). The alarm clock replaces any existing numbers with the new time.
- 3 Select either am or pm.
The am and pm options appear only if you've chosen the am/pm format for the clock.
- 4 Press Select.
The Alarm on message appears, and the alarm clock icon  appears on the Start screen.

 Note: The alarm clock works even when the phone is off.

Turn off the alarm clock when it rings

When the alarm clock rings:

- Press Stop to turn it off.
- Press Snooze to set the alarm to go off again in 10 minutes. The message Snoozing appears on the screen. If you wish to cancel the snooze, press Stop.

If you let the alarm ring for 1 minute or more without pressing a key, it stops ringing, waits 10 minutes, then rings again. This continues until you press Stop.

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Turn off the alarm clock altogether

If you want to turn the alarm clock completely off:

- 1 Press Menu 4-1 (Menu > Settings > Time settings).
Alarm clock appears on the screen with the current alarm time.
- 2 Press Select, scroll to Off, then press Select.

• **USE THE CALCULATOR**

Your phone's calculator adds, subtracts, multiplies, divides, and converts currencies.

- 1 Press Menu 7 (Menu > Calculator).
- 2 Enter the first number in the calculation.
- 3 Based on the type of calculation that you need to perform, use one of the following actions:

If you want to...	...Do this
Enter a decimal point	Press  .
Add	Press  for + symbol.
Subtract	Press  twice for - symbol.
Multiply	Press  three times for * symbol.
Divide	Press  four times for / symbol.

You can also press Options and then use  or  to scroll to: Add, Subtract, Multiply, Divide, Square, Square root, Change sign, To home, To foreign, or Exchange rate.

- 4 Enter the second number in the calculation.
You can repeat steps 3 and 4 as many times as necessary. Press Clear to erase any mistakes.
- 5 Press Options, use  or  to scroll to Equals, and press Select.

Convert currency

You can use the calculator to first set the exchange rate and then to calculate the exchange value.

SET THE EXCHANGE RATE

- 1 Press Menu 7 (Menu > Calculator), then press Options.
- 2 Use  or  to scroll to Exchange rate and press Select.
- 3 Select the exchange rate: Foreign units converted to home units or Home units converted to foreign units.
- 4 Press Select.
The exchange rate box opens with the number 1.
- 5 Enter the appropriate number and press OK.
To enter a decimal point, press .

CALCULATE CURRENCY USING THE EXCHANGE RATE

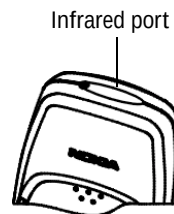
- 1 Press Menu 7 (Menu > Calculator).
- 2 Enter the number of units for the exchange rate.
- 3 Press Options and scroll to To home or To foreign.
 - To home converts foreign units of currency to home units using the exchange rate you entered.
 - To foreign converts home units of currency to foreign units using the exchange rate you entered.
- 4 Press Select.

18 Infrared

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

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

Your Nokia phone is a Class 1 Laser Product.



Note: The preferable distance between two devices in an infrared connection is from 3 inches to 3 feet. There must be no obstructions between the two devices and both IR ports must be pointed at each other.

• INFRARED BASICS

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

- 1 Make sure that the IR ports of the two devices are pointing at each other.
- 2 Press Menu 9 (Menu > Infrared), then press Select.
You see the message IR reception activated, and the IR icon  appears on the Start screen.
- 3 Have the user of the sending device select the desired IR function to start data transfer.

If data transfer does not start within 2 minutes after the activation of the IR port, the connection is cancelled. You must start it again.

Check the status of an IR connection

The status of an IR connection is shown by the infrared icon .

- When  appears steady, there is an IR connection between your phone and the other device.
- When  doesn't appear, no IR connection exists.
- When  blinks, your phone is trying to connect to the other device or the connection has been lost.

• SEND AND RECEIVE INFORMATION

You can transmit information in your phone by infrared (IR) using the industry-standard v.card format. You can send and receive business cards (v.card 2.1 format) to another compatible phone, to a PC running the appropriate software, or to other compatible IR-equipped handheld devices.

Send a business card to another device

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

- 1 Recall the phone book entry you would like to send by IR.
- 2 Press  twice (Details > Options).
- 3 Scroll to Send bus. card and press Select.
- 4 Point the two IR ports at each other.
- 5 Scroll to Infrared, then press Select.

Sending
indicator



The message Sending business card
appears on the screen.

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

Receive a business card from another device

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

- 1 Point the two IR ports at each other.
- 2 Press Menu 9 (Menu > Infrared).
- 3 When you see the message Business card received, press Show.
- 4 Press Options to select Save or Discard, and press Select.
 - If you press Save, the confirmation message Business card saved appears.
 - If you press Discard, the question Discard business card? appears. Press OK to discard the information.

Reminders

You can send and receive reminder notes (v.cal 2.1 format) between compatible phones and other compatible IR-equipped handheld devices.



Note: Make sure that the other phone or device is set to receive data by way of its IR port. Refer to the user guide for the other device for more information on enabling IR communications and receiving data over IR.

SEND A REMINDER NOTE TO ANOTHER DEVICE

- 1 Scroll to the reminder you wish to send and press .
- 2 Scroll to Send, then press .
- 3 Point the infrared ports of each device at each other.
- 4 Scroll to Via IR and press  to start data transfer.

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• PC CONNECTIVITY

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

Nokia PC Suite™

Once your phone is connected to your PC via Infrared, you can use the various components of Nokia PC Suite to:

- make a backup copy of the data in your phone (Content Copier)
- edit phone book names and numbers, profiles, and settings via your PC's keyboard.
- create new ringing tones and transfer them to your phone (PC Composer)
- synchronize your phonebook and reminders with PIM applications such as Microsoft Outlook, Outlook Express, and Lotus Organizer (PC Sync)

Instructions for PC Suite installation and setup, as well as the PC Suite user guide are available as part of the software download. Please refer to the documentation provided with PC Suite for more information.

Modem setup

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

For more information on modem setup, please refer to the PC Connectivity Guide. This document can be downloaded from the Nokia website.

Download software

PC Suite and modem setup are provided to you free of charge, and are available for download from:

<http://www.nokia.com>

19 Connect to the Wireless Internet

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

You can also save the address of any Wireless Internet site as a bookmark, much the same way you bookmark a Web page on your personal computer.



Note: All features may not be available on all carrier networks. Please check with your service provider for availability. If your phone does not display “Services” on its menu, your network provider does not support these features at this time.

- **NOTES ON WIRELESS INTERNET ACCESS**

This section gives a brief overview of wireless Internet access and provides some notes that may be useful in understanding wireless access.

Technology background

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

Today, most WAP sites consist of text and hyperlinks, and some sites can accept text input. Some pages even contain low-resolution graphics. Your service provider and others are free to design WAP sites as they choose, so the sites are as variable as Web pages on the Internet.

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Important: Internet content received over a secure connection and stored in your browser's cache may be reused over nonsecure connections and may create security issues. Nokia recommends that you check with your service provider to determine if emptying your browser's cache after each browsing session or some other method should be used to avoid security issues.

The service provider's role

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

It's likely that your service provider has created a home page and set up your browser to go to this page when you connect to the Internet. Once at your service provider's home page, you'll find links to a number of other sites that offer wireless access.

- **SET UP FOR BROWSING**

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

- **SIGN ON TO THE WIRELESS INTERNET**

You use the Services menu to connect to the Internet.

- 1 At the Start screen, press Menu 10 (Menu > Services).
- 2 At the Services menu, press Select.
- 3 Select Home.

Your phone connects to the Internet and to your service provider's home page. The first time you connect, you will be asked to enter the date and time if you have not already set them.

- The message Connecting to service appears on the screen until the connection is complete.
- If you see the message Check homepage address, the phone may not be set up for browsing. Contact your service provider to make sure that your phone is configured properly.

- **USE BROWSER OPTIONS (SERVICES MENU)**

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

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

Clear cache	Empties the browser's temporary memory and frees up space. It's advisable to empty your cache at the end of each session.
Home	Starts the browser and takes you to your service provider's home page.
Settings	Provides options for changing connection settings, appearance settings, and security certificate.

- **SIGN OFF THE WIRELESS INTERNET**

Press  at any time (or press Quit). At the question Quit browsing? select Yes.

- **NAVIGATE THE WIRELESS INTERNET**

The pictures on this page show most of the elements you may find on a wireless Internet site. These are examples only.

Header line: The current Internet site.

Active hyperlink: Highlighted option ready to be chosen.

Inactive hyperlink: Scroll to select a link and press OK to switch to other pages on the current site or to other sites.



Connect to the Wireless Internet

Use  and  to scroll through the list of links. You can use  as "open link".

Selection list: Brackets [] mean you can press the link to show additional choices or links.

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



Data entry field: Brackets [] around three dots appear when you need to enter information. For example, you might enter a city name, an airline name or flight number, or a stock symbol.



Edit a data entry field

When you need to enter information, follow these steps.

- 1 Scroll to highlight the data entry field, press Options, then select Edit.
- 2 Use the phone's keypad to enter the text in the data entry field (for example, Miami), and press OK.
The text you entered now appears between the brackets in the field.
- 3 Scroll to the link you want (for example, Get forecast?) and press Options and select Open link.

Choose browser options (while connected)

While you're connected to the Internet, the phone's browser provides the options described in the following list.



Tip: Developers of wireless Internet sites may add options to the browser menu that are specific to their Web sites. These options are often links to other areas within the site. As in any other menu, scroll to the link you want and press Select.

Home	Takes you back to the service provider's home page.
Bookmarks	Shows a list of all saved bookmarks.
Edit or Select	Allows you to edit the currently selected browser element (for example, a checklist or text entry field), or selects the active (highlighted) hyperlink.
Go to address	Accepts an address you enter.
Use Number	Captures a phone number shown on the screen to add to the phone book or place a call.
Clear cache	Empties the browser's temporary memory.
Exit	Exits the current session and returns to the Start screen.

• USE BOOKMARKS

You can save addresses for your favorite sites as bookmarks. A [bookmark](#) helps you find a site again.

- If a wireless Internet site has a title, it will appear in the bookmark list (for example, Yahoo! News, ebay on WAP, Mapquest).
- If the site has no title, the site's address will appear in the list of bookmarks (for example, <http://www.yahoo.com/news.wml>).

SAVE AN ADDRESS AS A BOOKMARK

- 1 Navigate to the site you want to bookmark and press Options.
- 2 Scroll to Add Bookmark and press Select.

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ENTER A BOOKMARK MANUALLY

- 1 While browsing, press Options.
- 2 Scroll to Bookmarks and press Select.
- 3 Press Options, highlight New bookmark and press Select.

Connect to the Wireless Internet

- 4 Enter the site's address (example: my.yahoo.com) and press OK.
You don't need to enter http://. It is added automatically.
- 5 Enter a name for the new bookmark and press OK.

RETURN TO A BOOKMARKED SITE

- 1 While browsing, press Options.
- 2 Scroll to Bookmarks and press Select.
- 3 Scroll to the bookmark you want and press Options.
- 4 Scroll to Go to and press Select.

If your connection ends while browsing, your phone will reconnect to the Internet when you select your bookmark.

20 Play games

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



Warning: Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger. Even when you're simply playing a game, the phone is active.

Start a new game

- 1 Scroll to the Games menu, and press Select.
- 2 Highlight Select game, and press Select.
- 3 Scroll to the desired game, and press Select.

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

Please visit Nokia games services on the Internet for more hints and tips: <http://www.nokia.com>

GAME SETTINGS

You can change the settings of the game's sounds, lights and shakes. To access the settings menu press Menu > Games > Settings.

- **SPACE IMPACT**

Use your weapons to survive alien attacks. When you defeat all the enemies, you progress to the next level. Use the **8 up** and **8 down** keys to move up and down, then *** +** and **cs #** keys to move left and right. Key **1 ad** or **def 3** fires the main weapons, and key **4 gh** or **mm 6** fires bonus weapons.

- **PAIRS 2**

Uncover pictures to find pairs, but use as few tries as possible. In Time trial, you must find all the pairs before the bomb explodes. Move the cursor with keys **2 abc**, **4 gh**, **mm 6**, and **8 up**. Press **5 ju** to reveal the pictures. To advance to the next level, you must match all the pairs before the dynamite fuse runs out.

- **SNAKE 2**

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



Note: You can use your phone's IR port to play Snake 2 against someone else. Before starting the game, point the IR ports of each phone at the other and then (each player) choose the two-player option.

21 Frequently asked questions (FAQ)

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 “Shortcuts” on page 26.

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 the keypad?

A. You can lock the keypad by pressing Menu > . The term **Keyguard** is also used in connection with this feature.

Q. How do I unlock the keypad?

A. 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 3-1-2-3 (Menu > Profiles > Normal > Customize > Ringing volume), then choose a volume level.

Q. How do I change the ringing tone?

A. Press Menu 3 (Menu > Profiles) and scroll through the list of profiles until you find the one for which you want to set the ringing tone. Then press Select.

- Highlight Customize and press Select.
- Scroll to Ringing tone, then press Select.
- Scroll through the options. After you hear the tone you want to use, press Select.

Frequently asked questions (FAQ)

Q. How do I store my voice mailbox number?

A. Press Menu 1-9-2 (Menu > 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 .
- Press Menu 1-9-1 (Menu > Messages > Voice messages > Listen to voice messages). Follow the voice prompts to review your messages.

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

A. Turn your phone off, then remove the battery from the phone. The model number is printed on the label under the battery.

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

A. Press  twice, quickly.

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.

Enter or recall 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 space I have used in my phone's memory?
- A. Press Names and scroll to Options.
Press Select.
Scroll to Memory status and press Select again. Your memory status appears.
- Q. How do I find my phone's electronic serial number (ESN)?
- A. Turn your phone off, remove the phone's back cover. See "Install the battery" for more information. The ESN number is printed on the label under the battery.
- Q. How can I change the contrast of my phone's display?
- A. Menu 4-3-5. See "Adjust screen contrast" on page 16.
- Q. How do I clear my call timers?
- A. WARNING: The clearing of call timers cannot be undone.
Press Menu 2-5-6 (Menu > Call log > Call timers > Clear timers).
When the security code box appears, enter your security code and press OK.

22 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 incoming, outgoing, 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	The identification number that is assigned to the phone.
In-call options	Features available for use while you are in a call.
Keyguard	Locks the keypad to prevent accidental keypresses.
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.
Number type locations	A location for a specific type of number, such as a Home or Work number.

Predictive text	A method of entering information in your phone that uses a dictionary to predict, or guess, what you are writing.
Primary number	The number your phone dials when you select a name from the phone book that has more than one number assigned to it.
Profile	A group of settings you can use to customize the way your phone works.
Quick save	A fast method for saving a number.
Ringtone	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 short message service.
Start screen	The idle screen that appears when you turn on your phone.
T9	The technical name for predictive text.
Template	A template is like a form letter-something you can use many times.
Voice mail	A network services feature that enables people who call and miss you to leave a voice message on your phone.
Warning tones	Sounds your phone makes when error conditions and confirmations occur, when the battery is low, and when you need to recharge the battery.

23 Reference information

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

- **BATTERIES AND CHARGERS**

This phone is intended for use when supplied with power from chargers labeled ACP-7U, ACP-8U, LCH-8, or LCH-9. Other usage could invalidate any approval given to this apparatus and might be dangerous.



Warning: When you purchase batteries, chargers, and accessories for your phone, use only batteries, chargers, and accessories that have received approval from the phone's manufacturer. The use of any other type of phone-related hardware will invalidate any approval or warranty applying to the phone, and could also be dangerous. For availability of approved batteries, chargers, and accessories, check with your dealer.

When you are not using a charger, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging could 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. Therefore, allow it to cool down or warm up before trying to charge it.

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

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object, like a coin, a clip, or a pen causes a direct connection of the + and - terminals of the battery, which are metal strips on the back of the battery.

An example of short-circuiting could occur if you carry a spare battery in your pocket or purse, where the battery could come into contact with such objects as a coin. Short-circuiting could damage either the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in either summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15° C and 25° C (59° F and 77° F).

A phone with a hot or cold battery might not work temporarily, even if the battery is fully charged. The battery's performance is particularly limited in temperatures below 0° C (32° F).

The following list provides guidelines that you can follow:

- A new battery's full performance is achieved only after two or three complete charge and discharge cycles!
- Your phone is powered by a rechargeable battery. 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 the battery only for its intended purpose.
- Never use any charger or battery that is damaged and/or worn out.
- Batteries must be recycled or disposed of properly. Do not dispose of batteries by putting them in fire!
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

- **IMPORTANT SAFETY INFORMATION**

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

Traffic safety

Do not use a hand-held telephone while driving a vehicle. Always park the vehicle before using the phone.

After completing your phone conversation, always secure the phone back into its holder; do not place the phone on the passenger seat or place it where it can break loose in a collision or during a sudden stop.



Note: The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Remember: Safety—Your most important call.

Operating environment

Remember to follow any special regulations that are in force in any area, and always switch off your phone wherever it is forbidden to use it. Otherwise, the use of your phone could cause interference or danger.

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



Note: Do not connect incompatible products.

As with other mobile radio transmitting equipment, you are advised that, for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the phone should only be used in the normal operating position. This position is when the phone is held to your ear with the antenna pointing over your shoulder.

Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment might not be shielded against the RF signals from your wireless phone. The following four subsections provide more information about this topic.

PACEMAKERS

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

- Should always keep the phone more than 6 inches (20 cm) from their pacemakers 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.



Caution: If you have any reason to suspect that interference is taking place, switch off your phone immediately.

HEARING AIDS

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

OTHER MEDICAL DEVICES

Operation of any radio transmitting equipment, including cellular phones, could 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. Also contact these authorities if you have any questions.

Switch off your phone in health care facilities or where any posted regulations instruct you to do so. Hospitals or health care facilities could be using equipment that is sensitive to external RF energy.

VEHICLES

RF signals could affect improperly installed or inadequately shielded electronic systems in motor vehicles. These could include electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, or air bag systems.

Reference information

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 if you are in any area that has 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.

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

Areas with a potentially explosive atmosphere are often—but not always—clearly marked. These areas include the following: 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 could be dangerous and might invalidate any warranty that could apply to the unit.

Regularly check 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 the installed or the portable wireless equipment, in the area over the air bag or in the air bag deployment area. If the in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Switch off your phone before boarding an aircraft. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network and may be illegal.

Failure to observe these instructions could lead to the suspension or the denial of telephone services to the offender, or it could result in legal action, or both scenarios could apply.

• EMERGENCY CALLS

IMPORTANT

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

Remember, to make or receive any calls, the phone must be switched on and be used in a service area that has adequate signal strength. Emergency calls might 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.

Always ensure that your phone is properly charged before attempting any emergency calls. If you allow your battery to become empty, you will be unable to receive or make calls, including emergency calls. You must then wait a few minutes after the charging begins to place any emergency calls.

Make an emergency call

- 1 If the phone is not on, switch it on.
- 2 Enter the emergency number for your present location (for example, 911 or any other official emergency number—emergency numbers vary by location).
- 3 Press .

If certain features are in use (Keyguard, fixed dialing, restrict calls, and so on), you might first need to turn those features off before you can make an emergency call. Consult this guide and your local cellular service provider.

Reference information

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

- **CERTIFICATION INFORMATION (SAR)**

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 1.34 W/kg, and when worn on the body, as described in this user guide, is 1.07 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

Reference information

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 GMLNPW-1PA.

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

*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at www.nokia.com.

Care and maintenance

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

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

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

- **ACCESSORIES**

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

A few practical rules for accessory operation:

- Keep all accessories out of 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 done 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.

- **BATTERIES**

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



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

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



Note: The charging times listed in the next section are approximate.

Charging times

The following table shows battery charging times for the specified chargers.

Battery Option	ACP-7U Charger	ACP-8U Charger
BMC-3 900 mAh NiMH	up to 4 h	up to 2 h

- The times shown allow your battery to obtain approximately 80% of its capacity. When this happens, the battery scroll bars on your phone's screen stop scrolling.
- If you want to obtain 100% battery capacity, allow another 2 hours for a "trickle" or "maintenance" charge.

Standby and talk times

The times shown in the following table are estimates only and represent a range for either standby or talk times (not a combination of both).

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

- Transmitting power level
- Signal (distance between the phone and the base station)
- Network parameters defined by the operator (operation mode - analog or digital)
- Phone use (WAP, games, SMS)
- Charging procedure used

Refer to the following table for more information on talk and standby times in both digital and analog networks.

Battery option	Talk time		Standby time	
	Digital	Analog	Digital	Analog
NiMH Battery BMC-3 900 mAh	Up to 5h	Up to 2.5h	Up to 15d	Up to 1.9d

• CHARGERS AND OTHER ACCESSORIES

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

The chargers and accessories that are described in this section are available for your phone. Contact your dealer for details. Also, refer to the accessories brochure that was included in your sales package for the entire line of Nokia Original Accessories.

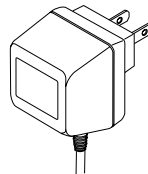
When a charger is not in use

- When a charger is not in use, disconnect it from the power source.
- Do not leave the battery connected to a charger for longer than a week, since overcharging the battery could shorten its lifespan. If left unused, a fully charged battery will discharge itself over time.

Standard Travel Charger (ACP-7U)

This is a lightweight (187g) and durable AC charger.

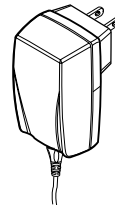
To use the Standard Travel Charger, plug it into a wall outlet and connect the lead from the charger to the base of your phone.



Rapid Travel Charger (ACP-8U)

This 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-8U), plug it into a standard 120V or 220V AC wall outlet, and connect the lead from the charger to the base of your phone.



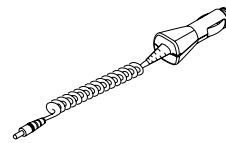
The charger can also be used together with the optional Desktop Charging Stand. Approximate charging times for discharged batteries are shown in "Charging times" on page 132.

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).

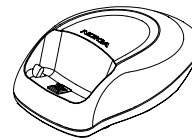
Calls are possible during charging. A green light indicates that the charger is ready for charging (when not charging) or finished charging (if it has been charging). The battery charging times are the same as those for the Rapid Travel Charger (ACP-8U).

The input voltage range is from 11 to 32V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger (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.



Desktop Charging Stand (DCV-10)

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



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

- Charging is indicated by the scrolling battery bars that are located on the right side of your phone's Start screen.
- When the scrolling stops, the battery is approximately 80% charged. The battery is fully charged a couple of hours after this time.

Reference information

Headset (HDE-2)

The headset provides handsfree operation. It connects directly to the phone requiring no additional adapter.



Nokia Xpress-on™ color covers

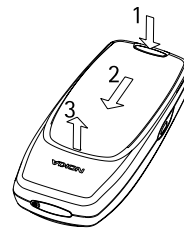
Your phone's Xpress-on™ cover is available in several fashion colors. Extra covers may be purchased from your authorized Nokia dealer.



Note: Always store the phone with cover attached.

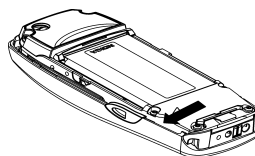
REMOVE THE BACK COVER

- 1 Switch off the power and disconnect the phone from the charger or any other device.
- 2 Push in the release button on the back of the phone (1), slide the cover toward the top of the phone (2 and 3), and remove it.

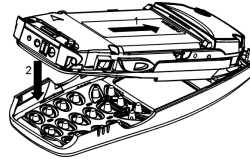


REMOVE THE FRONT COVER

- 1 Use the finger rests on each side of the phone and hold the phone face down.
- 2 While holding the phone, place your finger on the groove between the phone and the cover.



- 3 Gently pry the front cover away from the phone and lift the phone out of the cover.



REMOVE THE KEYPAD

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

REPLACE THE FRONT COVER

- 1 Slide the top of the phone into the top of the front cover. Be careful to align the power key/IR port with its place in the top of the front cover.
- 2 Gently push the bottom of the phone into the bottom of the front cover until it snaps into place.

REPLACE THE BACK COVER

- 1 Insert the two catches of the back cover in the corresponding slots in the phone.
- 2 Slide the cover towards the bottom of the phone until it locks into place.



• 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/receiving calls.	The battery is not charged.	Charge the battery.
	The signal strength is poor.	If you are indoors, move toward a window.
I can't listen to my voice messages.	You don't have voice mail service.	Call your wireless service provider.
	You have not set up your voice mailbox with your service provider.	Call your wireless service provider.
	You have not saved your voice mail number in your phone.	Refer to "Set up your voice mailbox" on page 61.
	You have forgotten your password or are entering it incorrectly.	Call your wireless service provider.
	The voice mail number you have saved is incorrect.	Call your wireless service provider.

- TECHNICAL INFORMATION

Weight	148g (4.8 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 V
Operating temperature	-4°F to +104°F (-20°C to +40°C)
Number of channels	832 lowband 1997 highband
Phone numbers	3
Memory locations	up to 200

24 Nokia One-Year Limited Warranty

Nokia Inc. ("Nokia") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

- 1 The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.
- 2 The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.
- 3 The limited warranty extends only to Consumers who purchase the Product in the United States of America.
- 4 During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.

- 5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.
- 6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.
- 7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
 - a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.
- 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

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.

Appendix A

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

© 2001 Cellular Telecommunications & Internet Association. All Rights Reserved. 1250 Connecticut Avenue, NW Suite 800, Washington, DC 20036.
Phone: (202) 785-0081

Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing. But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

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

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

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

Wireless Phone "Safety Tips"

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

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

Appendix A Message from the CTIA

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

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

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

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

For more information, please call 1-888-901-SAFE.
For updates: [http://www.wow-com.com/consumer/issues/driving/
articles.cfm?ID=85](http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85)

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Appendix B Message from the FDA

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

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RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell mobile or PCS phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called cordless phones, which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole

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body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
<http://www.fda.gov/cdrh/phones/index.html>
- Federal Communications Commission (FCC) RF Safety Program
<http://www.fcc.gov/oet/rfsafety>
- International Commission on Non-Ionizing Radiation Protection
<http://www.icnirp.de>
- World Health Organization (WHO) International EMF Project
<http://www.who.int/emf>
- National Radiological Protection Board (UK)
<http://www.nrpb.org.uk/>

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