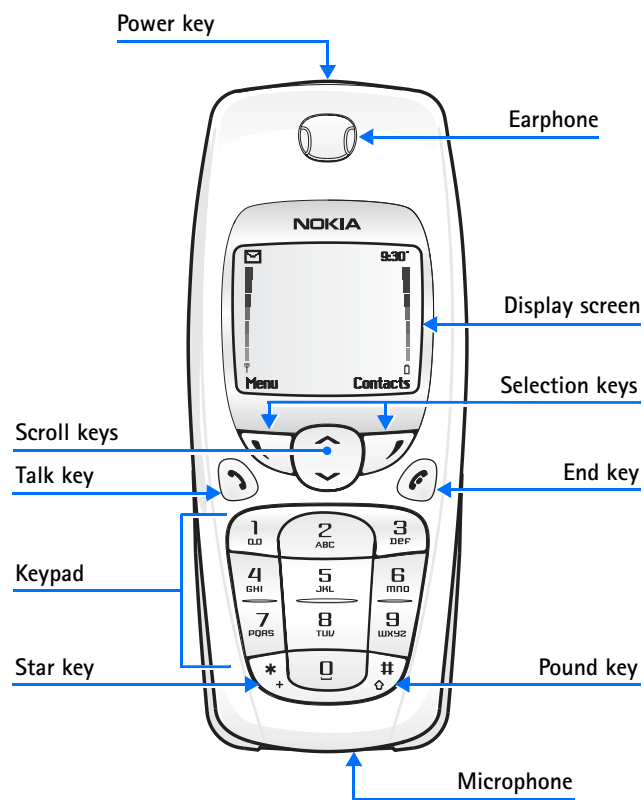


Nokia 3520 and Nokia 3560 phones at a glance



See "Learn the keys" on page 17.

User Guide for Nokia 3520 and Nokia 3560 Phones

What information is needed?	Numbers	Where is the number?
My number		Wireless service provider
Voice mail number		Wireless service provider
Wireless provider's number		Wireless service provider
Provider's customer care		Wireless service provider
Model number		Label on back of phone (under battery)
Phone type		Back of title page
Electronic serial number (ESN)		Label on back of phone (under battery). See "The phone label" on page 9.

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

LEGAL INFORMATION

Part No. 9355099, Issue No. 2a

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Printed in Canada 02/2003

US Patent No 5818437 and other pending patents.

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Java is a trademark of Sun Microsystems, Inc.

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FCC/INDUSTRY CANADA NOTICE

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

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1 For your safety

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



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



ROAD SAFETY COMES FIRST

Do not use a hand-held phone while driving.



INTERFERENCE

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



SWITCH OFF IN HOSPITALS

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



SWITCH OFF IN AIRCRAFT

Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING

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



SWITCH OFF NEAR BLASTING

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



USE SENSIBLY

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



QUALIFIED SERVICE

Only qualified personnel may install or repair phone equipment.



ENHANCEMENTS AND BATTERIES

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



WATER-RESISTANCE

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



BACKUP COPIES

Remember to make backup copies of all important data.



CONNECTING TO OTHER DEVICES

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



FUSE REPLACEMENT

Replace a blown fuse with a fuse of the same type and size. Never use a fuse with a higher rating.



CALLING

Before you make a call, be sure your phone is switched on, and in service. Enter the phone number, including the area code; then press **Talk**. To end a call, press **End**. Press **Talk** to answer an incoming call.



EMERGENCY CALLS

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

For your safety

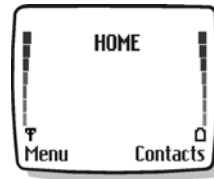
- **SHARED MEMORY**

The following features in this device may share memory: Contacts, images and ringing tones in gallery, calendar, to-do lists, Java applications. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many images may use all of the available memory. Your phone may display a message that the memory is full when you try to use a shared memory feature. In this case, delete some of the information or entries stored in the shared memory features before continuing. Some of the features may have a certain amount of memory specially allotted to them in addition to the amount of memory shared with other features.

2 Welcome

Congratulations on your purchase of a Nokia 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 efficiently as you learn to use your phone.

Understand the terms

- **Press** means to briefly press then release a key. For example, **Press 0** 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 2 – 3 seconds (depending on the feature you are using); then release the key.
- Use the Left and Right **selection keys** to choose an option in 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.

• QUICK GUIDE TO FUNCTIONS

✂	Make a call	Enter the phone number, press Talk .
	Answer a call	Press Talk or Answer .
	Answer with call waiting	Press Talk .
	End a call	Press End .
	Ignore a call	Press End .
	Redial	Press Talk twice.
	Adjust call volume	During a call, press the up or down key to adjust call volume.
	Use the in-call menu	In a call, press Options .
	Use 1-touch dialing	Press and hold one of keys 2 – 9.
	Save a name and number	Enter a number, press Options , select Save , enter a name, and press OK .
	Retrieve a name/number	Press Contacts ; then select Find .
	Retrieve a name/number during a call	Press Options , scroll to New call , press Select , press Find ; then enter the first letter of the name.
	Check voice mail	Press and hold 1 or call your voice mailbox number.
✂	Send a text message	Press Menu 0-1-1 , write the message, press Options , scroll to Send , press Select , enter the recipient's number; then press OK .
	Send an E-mail message	Press Menu 0-1-2 . Enter the recipient's address, press OK , enter the subject, press OK , write the message, press Options , select Send e-mail , enter the Gateway number (if needed) then press OK .
	Read new message	Press Show .
	Reply to a message	Press Options , select Reply , select As message , choose a reply option, write the reply, press Options , select Send ; then press OK .
	Reply to an E-mail message	Press Options , scroll to Reply , press OK , choose As e-mail , press Select ; then follow instructions for sending an e-mail message.
	Send a business card	Retrieve a name from the phone book, press Details , press Options , select Send bus. card , select SMS , enter the recipient's number; then press OK .

• MENU SHORTCUTS

0-1 Messages

- 0-1-1 Create message
- 0-1-2 Create e-mail
- 0-1-3 Chat
- 0-1-4 Inbox
- 0-1-5 Outbox
- 0-1-6 Archive
- 0-1-7 Templates
- 0-1-8 Delete messages
- 0-1-9 Voice messages
- 0-1-10 Message settings

2 Call log

- 2-1 Missed calls
- 2-2 Received calls
- 2-3 Dialed numbers
- 2-4 Delete recent call lists
- 2-5 Call timers

3 Profiles

- 3-1 Normal
- 3-2 Silent
- 3-3 Meeting
- 3-4 Outdoor
- 3-5 Pager

4 Settings

- 4-1 Tone settings
- 4-2 Time settings
- 4-3 Call settings
- 4-4 Phone settings
- 4-5 Display settings
- 4-6 Accessory settings
- 4-7 Network services
- 4-8 Security settings
- 4-9 Restore factory settings

5 Voice

- 5-1 Voice recorder
- 5-2 Voice tags
- 5-3 Voice commands

6 Gallery

7 Organizer

- 7-1 Calendar
- 7-2 To-do list
- 7-3 Calculator
- 7-4 Stopwatch

8 Games

9 Applications

10 Services

• CONTACTS (PHONE BOOK)

- 1 Find
- 2 Add contact
- 3 Edit name
- 4 Delete
- 5 Add number

- 6 Settings
- 7 1-touch dialing
- 8 Voice tags
- 9 Caller groups

Observe text conventions

This user guide provides text clues to help make instructions clear and easy to follow.

Bold indicates:

- The word or phrase appears on the phone's screen.
- Special text such as **Notes** and **Warnings**.

Bold and blue indicates:

- The word is an address on the World Wide Web.
- A definition for the word or phrase appears in the terms list (glossary) near the end of the user guide.

Italic characters are used for emphasis or indicate a variable.

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

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:

www.nokia.com/us

Also, an interactive user guide is available at:

www.nokiahowto.com

Sign up with a service provider

Before you can take advantage of any of the network services, you must sign up with a wireless service provider. Your service provider will make available descriptions of its services and instructions for using them.

Note differences among service providers

Wireless service providers may differ in their support of features. Some may not support all languages available in your phone. Before you sign up, make sure a wireless provider supports the features that you need.

• CONTACT NOKIA

When you need help, the Nokia Customer Care department can provide information about Nokia products. However, you may wish to check the chapter "FAQ (frequently asked questions)" on page 126, before calling the customer care center. Whether you are calling about your phone or an enhancement, have the equipment with you when you call. For example, if you are calling about a headset, please have it handy.

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
- Electronic serial number (ESN)
- Your ZIP code

The serial number (ESN) is on your phone's label.

Welcome

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

The phone 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.

- **CONTACT YOUR SERVICE PROVIDER**

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

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

3 Review the basics

- **THE ANTENNA**

Your phone has a built-in antenna. As with any other radio transmitting device, avoid touching the antenna when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed. Not touching the antenna area during a phone call optimizes the antenna performance and the talk time of your phone.



Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.



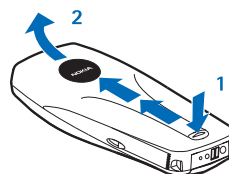
Caution: If the phone becomes too hot during a call, the call is automatically terminated. You will not be able to make or receive calls until the phone cools.

- **THE BATTERY**

Install the battery

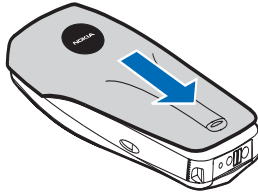
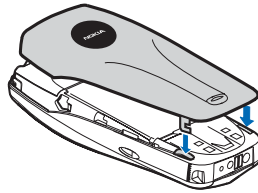
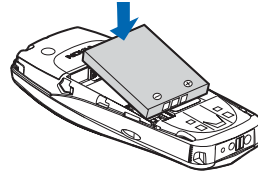
If your dealer has already installed the battery, please see "Charge the battery" below.

- 1 Remove the back cover by gripping the bottom with one thumb and pressing upward with the other thumb. Slide the cover toward the top of the phone and remove it.



Review the basics

- 2 Place the battery in the compartment with the label side facing up and the golden contact area aligned with the contact prongs. Make sure the bottom of the battery makes contact with the prongs in the lower end of the space; then press the top end of the battery into place.
- 3 To replace the cover, align the tabs in the slots.
- 4 Slide the cover down until it clicks.

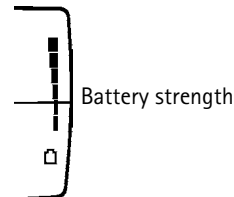
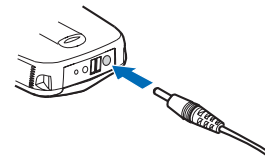


Charge the battery

Follow these guidelines to optimize your battery's performance.

- 1 With your phone turned off, connect the charger plug to the bottom of the phone. Connect the charger to an ac wall outlet.

The battery indicator bar appears on the screen and starts to scroll from bottom to top after a few seconds. It will remain constant when the phone is fully charged.



Disconnect the charger from the phone and ac outlet when the battery is fully charged. After the indicator bar stops scrolling, you can leave the charger connected and the battery will accept a "trickle charge" to maintain a fully charged battery. See "Reference information" on page 131 for more information on batteries.

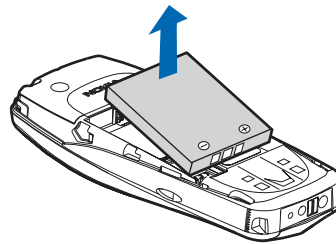


Note: Charge the new battery for three hours before using. Use the battery until it is fully discharged. You should do this for a total of three charging cycles. After the first charge, you can make and receive calls during the charging cycle, but the calls interrupt the charge. When a call ends, the charge will resume. The charging time depends on the charger and battery you use.

• REMOVE THE BATTERY

Before removing the battery, make sure the phone has been turned off for 10 seconds.

- 1 Remove the back cover of the phone by gripping the bottom with one thumb and pressing downward with the other.
- 2 Place your index finger in the space at the top of the battery, and lift out of phone.
- 3 Take out the battery.



Caution: Use only your hands to remove the battery. Do not puncture, burn, or use any objects that may damage the phone or the battery. Please recycle the battery or dispose of properly.

• IMPORTANT BATTERY INFORMATION

- Recharge your battery only with a charger approved by Nokia.
- You can switch the phone on and use it for calls while the battery is charging.

Review the basics

- If the battery is totally empty, it may take a few seconds for the battery indicator to appear on the screen.
- If you are still connected to the charger and you switch the phone on when charging is complete, the screen momentarily shows **Battery full**.
- The BLC-2 battery does not need to be fully discharged before recharging.
- Charging time depends on the charger and battery used. See "Battery" on page 141 for charging, talk, and standby times.
- If the battery is completely empty, you may need to recharge it for a few minutes before you can make or receive calls.

• SWITCH ON YOUR PHONE

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

Press and hold the power key (located on the top of the phone) for two seconds.



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



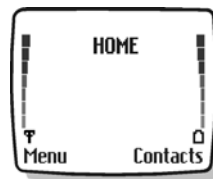
• CHECK THE START SCREEN

When you switch on your phone, a welcome note appears, and then you see the **start** screen. This is the "home base" for your phone.




Return to the start screen

You can easily return to the start screen from any activity by pressing the **End** key.

The phone clears (erases) any text or information you may have entered, and returns to its home screen when you press the **End** key. However, if you were writing a new text message, the message remains available.



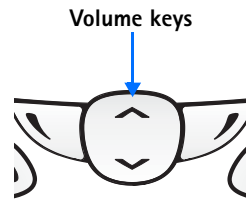
TOUR THE START SCREEN

HOME	Your service provider's name may appear here.
	Signal strength. A higher bar indicates a stronger 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 the left selection key to enter the menus.
Contacts	The entry point for the phone book. Press the right selection key to enter the Contacts feature.
	Indicates that you are connected to a digital network.

4 Phone setup

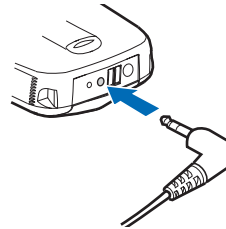
- **ADJUST THE VOLUME**

During a call, you can change the volume level on your phone, making incoming voice sounds louder or softer. The volume keys are the same as the scroll keys. Press the top of the key to increase volume or the bottom of the key to decrease volume. A bar chart appears on the phone's screen, showing the current volume level.



- **THE HEADSET**

Depending on your service provider, your sales package may include a headset. Using the headset provides convenient handsfree communications.



Connect the headset

Connect the headset mini-plug jack into the headset jack on the bottom of your phone.

The ear bud fits into either ear, and the microphone hangs at the side of your head. When using the headset microphone, speak in a normal voice. You can use the button on the headset to make, answer, or end a call, or use the normal **Talk** and **End** key functions. To view other available Nokia enhancements, visit www.nokia.com/us.

Adjust the volume

Change the headset's earpiece volume to make the caller's voice louder or softer by pressing the up or down scroll keys. Volume changes can only be made during a call.



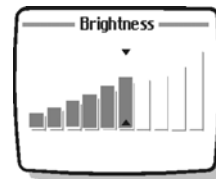
Note: The next two topics require that you use menus. You may wish to review the next two chapters to learn more about menus and then return here to adjust screen contrast and equalizer.

- **ADJUST SCREEN CONTRAST**

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

- 1 Press **Menu 4-5-4** (**Settings > Phone settings > Display brightness**).

After about two seconds, a bar chart displays the current contrast level.



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

- **SET EQUALIZER**

Like a stereo, you can customize the audio properties of your phone using the equalizer. Choose from a list of presets or create a custom set of your own.

- 1 Press **Menu 4-3-4** (**Settings > Call settings > Equalizer**).

- 2 Choose from one of the following options from **Equalizer's** menu:

Normal—Selects the default setting for equalizer.

Bright—Amplifies higher frequencies.

Dark—Amplifies lower frequencies.

Loudness—Amplifies both higher and lower, but not middle frequencies.

Set—Allows you to define three different sets of sound settings that you can activate, deactivate, edit, or rename.

- **LOCK KEYPAD (KEYGUARD)**

The keyguard feature allows you to lock the keypad to prevent accidental keypresses.

To lock the keypad, press **Menu**; then **Star**. To unlock the keypad, press **Unlock** and then press **Star** (within three seconds). While in keyguard, you can tap the power key to activate the lights in the phone.



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



Tip: While keyguard is activated, you can press the power key to turn on the lights in your phone.

Accept incoming calls

During an incoming call, the keypad automatically unlocks.

Press the **Talk key** or **Answer** to answer the call. After the call, keyguard reactivates automatically.

• LEARN THE KEYS


Here is a summary of how the various keys on your phone work. Refer to the diagram at the beginning of the book for the location of the keys.

Key	What it does
Power button	Power: Press and hold to switch the phone on or off. Press briefly to access the list of profiles.
Selection keys	Selection: Press to choose the option shown by the word above the key (for example, Menu).
Talk key	Talk: Press to make a call to the name or number shown on the screen or to answer a call. Press Talk once at the start screen to view the first in a list of numbers you have most recently dialed. Press Scroll down to review the list. Press Talk again to call a number shown on the list.
End key	End: Press to end call or to silence the ring from an incoming call. Also, press to return to the start screen.
Number keys	Number: Use keys 2–9 to enter numbers and letters. Press 0 key if you want to insert a blank space while entering text.

Key	What it does
1 key	Press and hold 1 key to call your voice mailbox. This feature requires one-time setup in your phone.
Star key	Symbols: When writing a message, press Star to enter special characters, such as punctuation marks.
Scroll keys	Press to scroll up or down through a menu list of options.

• MAKE AND ANSWER CALLS

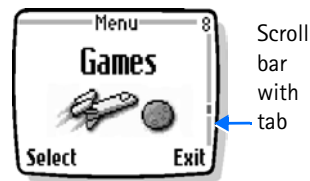
Use this quick guide to make and answer calls.

Switch the phone on (or off)	Press and hold the Power 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	<ol style="list-style-type: none"> 1 Enter a phone number, including area code if needed. 2 Press Talk. 3 Hold the phone as you would any other telephone, with the earpiece over your ear. Or, connect and use the headset.
Answer a call	When your phone rings, press Talk .
End a call	Press End .
Avoid unintentional calls	Press Menu ; then Star . Activates the keyguard feature. You cannot accidentally make a call.
Turn Keyguard off	Press Unlock ; then Star .

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

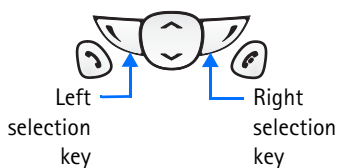
The following is a collection of the various symbols you may see on your phone.

Symbol	What it means
	You have an active call.
	The phone is waiting for you to enter numbers or text.
	You have turned off call alert tones and text message alert tones, and set your ringing tone to Silent .
	You have activated keyguard to help prevent any accidental key presses.
	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 # to switch to lowercase.
abc	Letters you enter will be lowercase. Press # to switch to uppercase.
Abc	Letters you enter will be in sentence case.

Symbol	What it means
123	Characters you enter will be numbers. Press and hold # to switch back to letters.
	You are using predictive text. The first letter of every sentence will be uppercase. Available when entering information into your calendar, To-do list, or writing text messages. Press and hold # to switch to numbers.
 ABC	You are using predictive text. Characters you enter will be uppercase letters. Press # to switch to lowercase letters. Press and hold # to switch to numbers.
 abc	You are using predictive text. Characters you enter will be lowercase letters (c, e, m, etc.). 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.
 123	You are in predictive text mode. However, the characters you enter will be numbers. Press and hold # to switch back to letters.
? ! @	You can enter only symbols, such as punctuation marks. Appears when you press and hold * while entering or editing text.
	The alarm clock is set.

• USE THE SELECTION KEYS

Note the two selection keys beneath the screen. The function of each key is determined by the word shown above them on the screen.



- For example, pressing the Left selection key when the word **Menu** appears above it shows the first of many menus. Scroll through the menus with the scroll key.
- Pressing Right selection key when **Contacts** appears above it opens the phone book 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 15 seconds.

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

- 3 Use **Scroll up** and **Scroll down** to read the longer descriptions.



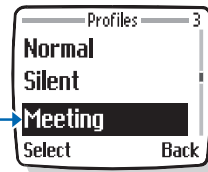
Note: Press **Menu 4-4-5** to turn the in-phone help system (help texts) on or off.

• BROWSE PHONE MENUS

A **menu** is a list of various phone features. Your phone has up to 11 menus, plus the phone book menu (**Contacts**). Each menu can contain several levels of submenu.

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

A menu

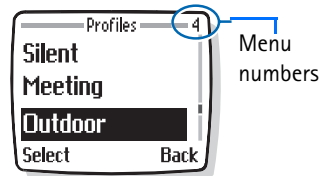


Scroll through menus

- 1 At the start screen, press **Menu**; then scroll through the menus using **Scroll up** and **Scroll down**.
- 2 Press **Options**, **Select**, or **OK**, by pressing the selection key for the option you want.
- 3 Use the scroll and selection keys to navigate the submenus; press **Talk** to return to the start screen.

Use a shortcut

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



Press **Menu**, and within 1.5 seconds, enter the first number of the menu function you want to access. Repeat until you have entered all the numbers.

Example: To turn on **Automatic redial**, press **Menu 4-3-1-1** (**Settings > Call settings > Automatic redial > On**).



Tip:

- Scroll upward or downward to find some of the most frequently used submenu options.
- Return to the previous menu level by selecting **Back**.
- To exit a menu and return to the start screen, press **End**. If you leave a menu by pressing **End**, you cancel any changes you made.
- Some menus may not appear. Ask your service provider for details.

• SHORTCUTS

MESSAGES.....0-1

- Create message0-1-1
- Create e-mail.....0-1-2
- Chat0-1-3
- Inbox.....0-1-4
- Outbox.....0-1-5
- Archive.....0-1-6
- Templates.....0-1-7
- Delete messages0-1-8
- Voice messages0-1-9
 - Listen to voice messages.....0-1-9-1
 - Voice mailbox number.....0-1-9-2
- Message settings.....0-1-10
- Sending profile...0-1-10-1
- Font size0-1-10-2

CALL LOG..... 2




- Missed calls 2-1
- Received calls 2-2
- Dialed numbers 2-3
- Delete recent call lists... 2-4
 - All2-4-1
 - Missed.....2-4-2
 - Received2-4-3
 - Dialed2-4-4
- Call timers 2-5
 - Duration of last call...2-5-1
 - Duration of dialed calls2-5-2
 - Duration of received calls2-5-3
 - Duration of all calls...2-5-4
 - Clear timers2-5-5

PROFILES 3

- Normal 3-1
 - Select..... 3-1-1
 - Customize..... 3-1-2
 - Ringling options .. 3-1-2-1
 - Ringling tone..... 3-1-2-2
 - Ringling 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
 - Alert for..... 3-1-2-8
 - Timed..... 3-1-3
- Silent..... 3-2
- Meeting 3-3
- Outdoor..... 3-4
- Pager..... 3-5

SETTINGS 4

- Tone settings 4-1
- Time settings 4-2
 - Alarm clock..... 4-2-1
 - Clock 4-2-2
 - Auto-update of date and time 4-2-3
- Call settings 4-3
 - Automatic redial.... 4-3-1
 - Calling card..... 4-3-2
 - Show call time on display 4-3-3
 - Equalizer 4-3-4
- Phone settings 4-4
 - Language..... 4-4-1
 - Automatic keyguard.. 4-4-2

Touch tones.....	4-4-3	Security settings.....	4-8
Welcome note.....	4-4-4	Call restrictions.....	4-8-1
Help text activation ..	4-4-5	Access codes	4-8-2
Start-up tone	4-4-6	Restore factory settings...	4-9
Display settings	4-5	VOICE	5
Wallpaper	4-5-1	Voice recorder.....	5-1
Color schemes.....	4-5-2	Voice tags	5-2
Screen saver		Voice commands.....	5-3
timeout.....	4-5-3	GALLERY.....	6
Display brightness...	4-5-4	ORGANIZER.....	7
Accessory settings	4-6	Calendar	7-1
Headset	4-6-1	To-do list.....	7-2
Handsfree	4-6-2	Calculator	7-3
Loopset	4-6-3	Stopwatch.....	7-4
TTY/TDD	4-6-4	GAMES	8
 Note: The Accessory		Select game.....	8-1
settings appear only after		Game downlds.....	8-2
an enhancement is		Memory.....	8-3
connected to the phone.		Settings.....	8-4
Network services	4-7	APPLICATIONS.....	9
Voice privacy.....	4-7-1	Select app.....	9-1
Network feature		App. downloads.....	9-2
setting	4-7-2	Memory.....	9-3
*Call forwarding	4-7-3	SERVICES	10
*Call waiting	4-7-4	<i>Refer to "Connect to the Internet"</i>	
*Send own caller ID		<i>on page 119, for information about</i>	
when calling	4-7-5	<i>services.</i>	
 Note: The above features		PREPAID	11
* are activated with a		Check account balance ..	11-1
code obtained from your		Add money to account...	11-2
service provider.		Save access phone	
Own number		numbers.....	11-3
selection	4-7-6	 Note: You must activate	
System selection.....	4-7-7	the Prepaid menu before	
		it appears in your phone.	

- **CONTACTS MENU**

For access to the phone book and its menus:

- Switch back to the start screen.
- Press **Contacts**.

These options are available:

FIND

ADD CONTACT

EDIT NAME

DELETE

ADD NUMBER

SETTINGS

Contacts view

Name list

Name+number

Memory status

1-TOUCH DIALING

VOICE TAGS

CALLER GROUPS

Family

VIP

Friends

Business

Other


5 Add information

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

- “The phone book” on page 34 tells you how to use and manage names and numbers.
- “Communicate with text messages” on page 99 tells you how to send, receive, and manage mobile messages.

• ABOUT ENTERING LETTERS AND NUMBERS

Depending on the kind of information you are entering (names, numbers, or text), you can enter information into your phone in three ways:

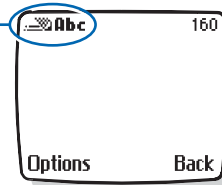
Method	The phone shows	Use for
ABC	ABC for all uppercase letters, abc for all lowercase letters, or Abc for sentence style letters (first letter capitalized).	Writing names. abc is the default (preset) method.
123	123 for numbers.	Entering numbers. You can switch to 123 when you are in a name box.
Predictive 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.

Icon showing current entry method



Enter letters

When you are in a name box in the phone book, the phone shows the **Abc** icon. 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 the **2** 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	A
Press 5 5 5	I
Press 2 2	b
Press 3 3	e
Press 7 7 7	r
Press 8	t



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

Enter punctuation and other characters

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

Key	Characters	Key	Characters
1 key	Punctuation and symbols shortcut	7 key	P Q R S 7
2 key	A B C 2	8 key	T U V 8
3 key	D E F 3	9 key	W X Y Z 9
4 key	G H I 4	0 key	Space, 0
5 key	J K L 5	Star key	Press and hold for punctuation and symbols.
6 key	M N O 6	Pound key	Changes letter case.



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

ENTER SPACES AND PUNCTUATION

- Press **0** to enter a space between words.
- Press **1** briefly while in **abc** to enter a period.
- Press **Star** to show special characters. A screen appears with the available special characters. See "Use special characters in names and phone numbers" on page 29.

Use the scroll keys to select the character you want, and then press **Select**, or use four-way scrolling using the 2, 4, 6, and 8 keys.

- Press **2** to scroll up
- Press **8** to scroll down
- Press **4** to scroll left
- Press **6** to scroll right

ERASE MISTAKES

If you make a mistake:

- Press **Clear** to erase one character to the left.
- To erase all text, select **Options**; then select **Clear text**
OR
- Press and hold **Clear**.

CHANGE LETTER CASE

- To change cases (upper, lower, predictive, sentence), press **Pound**.
The **ABC** icon switches to **abc**, showing you are using lowercase letters.
- Press and hold a key until the number of that key appears on the screen, or press and hold **Pound** to switch to numbers.

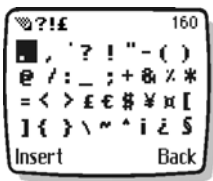
Use special characters in names and phone numbers


Your phone has special characters, symbols, and punctuation that are available when writing text. Here is a sample:

.	?	!	@	'	-	_	(
)	,	:	;	&	/	~	◇
\	%	*	#	+	<	=	>
"	£	\$	¥	☎	§	i	¿
\$							

IN ABC

- 1 Press **Star**.
- 2 A screen appears with the available symbols.
- 3 Press **Scroll up** or **Scroll down** to move to the character you want; then select **Insert**.

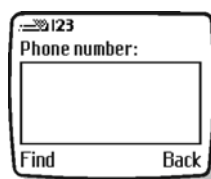


 **Note:** For faster scrolling when viewing special characters, you can use the **2** (up), **8** (down), **4** (left) and **6** (right) keys.

IN 123

The **Star** key inserts special characters for when you are prompted to enter a phone number.

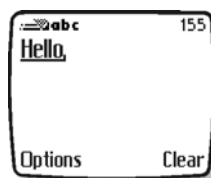
- * This character sends command strings to the network. Contact your service provider for details.
- p This character creates a pause that occurs when the phone dials a number. Numbers entered to the right of this special character are automatically sent as touch tones after a 2.5-second pause.



- w This character causes the phone to wait for you to press **Send**.

• WRITE WITH PREDICTIVE TEXT

When you are 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 predicts, or guesses, what you are writing. For example: To write "Nokia" with the English dictionary selected:



What you press	What you see
Press 6	o
Press 6	on
Press 5	onl
Press 4	onli
Press 2	Nokia


Keys for predictive text


Key	Purpose
Keys with letters	Use for word entry. Press each key only once for each letter.
Star key	Press to view the next matching word if the underlined word is not the word you intended. To change the underlined word, press Star repeatedly until the word you want appears. Also, press and hold this key for a list of symbols.
Spell	If the dictionary sees a word it does not recognize, you see Spell above the left selection key. Select Spell , enter the word you want to enter, and press Save .
O key	Press once to accept a word and add a space.
Pound Key	Press and hold to enter a number. You see the 123 icon on the screen. Press and hold Pound again to write text letters.
Clear	Press once to delete the character to the left of the cursor.
Star key	Press repeatedly to add various punctuation marks.
Pound key	Press once quickly to switch the character 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**, and then press **Select**.
- 2 When **Create message** appears, press **Select**.
- 3 Press **Options**, scroll to **Predictive text** and press **Select**.

- 4 Scroll to the dictionary 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 the **Pound** key twice.

 **Note:** When you turn on Predictive text, it is active in all areas of the phone where you write text, with the exception of the e-mail subject box.

Turn off predictive text input

- 1 Repeat steps 1–5 in the section immediately above.
- 2 Scroll to **Prediction off** and press **OK**.

Tips for predictive text

QUICK ACTIVATION OR DEACTIVATION OF PREDICTIVE TEXT

To quickly activate or deactivate T9 while writing a message, press and hold **Options**, or press **Pound** twice.

ADD A SYMBOL

- 1 Press and hold the **Star** key.
The symbol screen appears, showing the list of special characters. For more information on special characters see “Enter spaces and punctuation” on page 28.
- 2 Scroll to the symbol you want and select **Insert**.

CHECK A WORD

When you have 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 **0** to confirm the change and enter a space.
- Start writing the next word.

If the word is not correct:

- Press **Star** repeatedly until the word you want appears, and then press **0** to confirm it.
- OR
- Press **Options**, scroll to **Matches**, and 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 **ABC** so that the first letter in the next word will be uppercase (a capital letter).

ADD A WORD TO THE DICTIONARY

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

- 1 Select **Spell** and enter the word using standard text entry.
- 2 Select **Save** to save the word.

INSERT NUMBERS

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



Tip: You can also press and hold any number key while writing a message. This will cause the number on the key to appear in the text.

INSERT SYMBOLS

- 1 To put a symbol in the message, press **Options** and scroll to **Insert symbol** (or press **Star** and scroll to the symbol you want).
- 2 Select the symbol you want (use the scroll keys to move through the symbols) and press **Insert**.

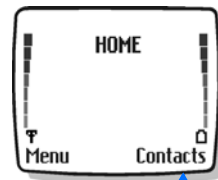
WRITE COMPOUND WORDS

- 1 Write the first part of the word and press **Scroll down** to accept that part.
- 2 Write the last part of the compound word and press **0** to enter.

6 The phone book

Your phone includes a phone book that can store up to 250 entries (names and associated phone numbers). In addition, the phone book can store up to five numbers and four text entries per entry, such as notes or addresses.

- 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.



Phone book

• OPEN THE PHONE BOOK

There are several ways to view the names in your phone book:

- At the start screen, use **Scroll up** and **Scroll down** to scroll through the names.
- Press **Contacts**, select **Find**, enter the first letter of the name. If more than one name appears, scroll to the name you want.

• SAVE NAMES AND NUMBERS

You have several options for saving names and numbers.

Quickly save a number

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

The number is saved without a name, but you can add a name later.

Quickly save a name and number

- 1 Enter the phone number using the keypad.
- 2 Press **Options** and select **Save**.

- 3 Enter a name and press **OK**.
A confirmation message appears.
- 4 Press **Done** to return to the start screen.

Save an entry using the **Contacts** menu

- 1 Press **Contacts** to enter the phone book.
- 2 Scroll to **Add contact** and press **Select**.
Contact name: appears.
- 3 Enter a name and press **OK**.
Number: appears.
- 4 Enter a number and press **OK**.
A confirmation message appears.
- 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 up to four text entries, such as 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 or number to which you want to add text.
- 2 Press **Details**; then press **Options**.
- 3 Scroll to **Add detail**, press **Select**; then scroll to the text type you would like to add (**E-mail**, **Street addr.**, or **Note**).
- 4 Press **Select**, add your text, and press **OK**.
- 5 Press **Talk** to return to the start screen.

- **RETRIEVE INFORMATION**

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

Retrieve numbers from the phone book

- 1 At the start screen, press **Contacts**.
Find appears highlighted.
- 2 Press **Select** and enter the desired name.
- 3 When the name appears, press **Talk** to call the number.

Retrieve information with shortcuts

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

- Press **Contacts**, enter the first letter of the name, scroll to the name, and press **Details**.
- At the start screen, press the scroll keys to immediately enter your list of names, scroll to the name you want, and press **Details**.
- Press **Talk** to access a list of your last ten dialed calls, scroll to the one you want to dial, and press **Talk** again.

- **USE PHONE BOOK MENUS**

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

Find	Search for a specific entry.
Add contact	Add a new contact to your phone book.
Edit name	Edit an existing contact.
Delete	Delete names and numbers one by one or all at once.
Add number	Add a contact to the phone book.

The phone book

Settings	View a new menu list which includes the phone book memory status and scrolling view.
1-touch dialing	Assign up to eight keys for speed dialing.
Voice tags	"Tag" a phone book listing with a voice signal so you can call by speaking the signal into your phone.
Caller groups	The caller groups feature enables you to identify callers by the ringing tone or graphic that you have assigned to their group. A group can be as small as one person or as large as your entire phone book. You can define the ringing tone and graphic for up to five predefined groups in your phone book.

Change contacts view

You can view your phone book in two different ways:

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

- 1 Press **Contacts**.
- 2 Scroll to **Settings** and press **Select**.
- 3 When **Contacts view** appears, 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 Retrieve the name or number you wish to edit.
- 2 Press **Details**, and 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 delete an item, you can restore it only by reentering it.

- 1 Retrieve the phone book entry you want to delete.
- 2 Press **Details**, and then press **Options**.
- 3 Scroll to **Delete number**, and press **Select**.
A confirmation message appears.
- 4 Press **OK**.

OR

- 1 Press **Contacts**, scroll to **Delete**, and press **Select**.
- 2 Scroll to **One by one** and press **Select**.
Your list of contacts appears.
- 3 Scroll to the entry you want to delete and press **Delete**.
- 4 When the message **Delete all details?** appears, press **OK**.

- **DELETE THE ENTIRE PHONE BOOK**

These steps delete all contacts in your phone book.

- 1 Press **Contacts**, scroll to **Delete**, and press **Select**.
- 2 Scroll to **Delete all** and press **Select**.
- 3 When you see the message **Are you sure?**, press **OK**.
- 4 Enter your security code.

- **ADD A SECOND NUMBER TO A NAME**

There are several ways to add a number to an existing name in the phone book. Once you choose to add a number, 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 **Contacts**, scroll to **Add number**, and press **Select**.
- 2 Scroll to the name to which you want to add the number and press **Add**.
- 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 contact** and press **Select**.
- 4 Scroll to the name to which you want to add the number and press **Add**.
- 5 Scroll to the desired number type and press **Select**.

By retrieving the name

- 1 Retrieve 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 Retrieve 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 contacts in your phone book have multiple numbers, it is 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 Retrieve 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**.

Primary number set appears on the screen.

• CREATE CALLER GROUPS

Your phone allows you to create caller groups for listings with similar attributes in your phone book. The five available default caller groups are **Family**, **VIP**, **Friends**, **Business**, and **Other**. Each group has three attributes which can be defined by the user: **Group name**, **Group tone**, and **Group logo**.

ADDING A NAME AND PHONE NUMBER TO A CALLER GROUP

- 1 Once you have retrieved the desired name and number from the phone book, press **Details**; then select **Options**.

- 2 Scroll to **Caller groups**, and press **Select**.
- 3 Scroll to the desired caller group (for example, **Family**), and press **Select**.

SETTING A RINGING TONE AND GRAPHIC FOR A CALLER GROUP

- 1 Press **Contacts**.
- 2 Scroll to **Caller groups** and press **Select**.
- 3 Scroll to one of the caller groups and press **Select**.
- 4 Scroll to one of the following functions and press **Select**.

Rename group

Enter the new name for the caller group and press **OK**.

Group ringing tone

Scroll to the desired tone and press **OK**. **Default** is the tone selected for the currently selected profile.

Group logo

Scroll to **On**, **Off**, or **View**, and press **Select**.

Group members

Press **Select** to view group members. To add or remove a member, press **Options**; then select **Add name** or **Remove name**.

• CHECK MEMORY STATUS

You can learn what percentage of phone memory is free and what percentage has been used.

- 1 Press **Contacts** and scroll to **Settings**.
- 2 Scroll to **Memory status** and press **Select**.

7 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
- Received calls
- Dialed numbers
- Time spent on calls



• CHECK MISSED, RECEIVED, OR DIALED CALLS

- 1 Press **Menu 2 (Call log)**.
Call log appears followed by **Missed calls**.
- 2 Press **Scroll up** and **Scroll down** to move to **Received calls**, **Dialed numbers**, **Delete recent call lists**, and **Call timers**.
- 3 Press **Select** at the submenu you want.
- 4 For missed, received, and dialed numbers, a phone number (or the name associated with a number in the phone book) appears.
- 5 Press **Scroll up** and **Scroll down** 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 following the next step.
- 6 When you see the option you want, press **Select**.

Call time	Shows the date and 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.
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.

Edit number	Allows you to edit the number shown on the screen.
Save	Saves the number in your phone book.
Add to contact	Adds the number to a name already saved in your phone book.
Delete	Removes the number from the call log.
Call	You can call the number that just called your phone.



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

MISSED CALLS

Your phone stores up to 30 numbers associated with calls you have missed. When you miss a call, the message **Missed calls** appears on your phone's screen, along 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 up to 30 numbers associated with calls you have dialed or received.

• CLEAR CALL LISTS

Your phone uses **call lists** to track numbers for incoming, outgoing, and missed calls. You can delete some or all of the numbers that appear in your phone's call log. You can delete dialed numbers, received call numbers, or missed call numbers.

- 1 Press **Menu 2-4 (Call log > Delete recent call lists)**.
- 2 Use **Scroll up** or **Scroll down** to scroll through the options list.
The list includes: **All**, **Missed**, **Received**, and **Dialed**.

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

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



Caution: You cannot undo this operation.

• 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 (Call log > Call timers)**
- 2 Press **Scroll up** or **Scroll down** to scroll through the options described in the following list.

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.
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.

Call history



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



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

- **TURN ON A CURRENT CALL TIMER**

You can set your phone to show the elapsed time during a call.

- 1 Press **Menu 4-3-3** (**Settings > Call settings > Show call time on display**).
- 2 Scroll to **On** and press **OK**.
Now 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.

- **CLEAR CALL TIMERS**

- 1 Press **Menu 2-5-5** (**Call log > Call timers > Clear timers**).
The **Security code** field appears.
- 2 Enter your security code and press **OK**.

8 Advanced calling features

This chapter describes advanced calling features such as conference calling, using call waiting, and using credit cards for calls. Not all the 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**. To access an option during a call, press **Options**, and choose one of the following options:



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

Lock keypad	Activates keyguard (see page 16)
Record	Record sounds with your phone and listen to them later
Equalizer	Customize the audio properties of your phone
New call	Allows you to create a new call while in a call.
Touch tones	Allows you to manually enter a touch tone string (series of tones) or search for a string in your phone.
End all calls	Ends all active calls.
Contacts	Allows you to use the phone book. Once you open the phone book, pressing End will not close the phone book, but it will end the current call.
Menu	Takes you to the main menus.
Mute	Mutes the phone's microphone. If, somehow, your phone's microphone has already been muted, Unmute appears instead of Mute . Press OK to choose either of these options.

The above options can affect the microphones of any enhancements connected to the phone.

- **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 must activate the call waiting feature.

Store the call waiting feature code

- 1 Press **Menu 4-7-2** (**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 4-7** (**Settings > Network services**).
- 2 Select **Call waiting**; then select **Activate**.

Your phone calls the network to confirm the feature code you entered. After the network confirms the feature code, call waiting is activated.

Manage calls

Call waiting works with both local and long distance calls.

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

Make a conference call

While in a call, you can call another number and 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 add and press **Talk**.
OR
Press **Options**, scroll to **New call**, press **Select**, enter the phone number, and press **Call**.
If you do not 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 retrieve the number.
- 2 When the third party answers, press **Talk** to connect all three parties.
- 3 To place one of the parties on hold, press **Talk** again.
If you press **Talk** 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 **End**.

Look up a number during a conference call


If you do not 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 retrieve the number without having to end the current call.

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

• CALL FORWARDING

With **call forwarding**, you can send incoming calls to another phone number. This way, if you are unable to receive calls on your phone, all calls going to that phone can be forwarded to another phone. You never have to miss an important call.

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

 **Note:** You can enter the call forwarding feature code manually, rather than storing it. Each time you need to forward phone calls, you must enter the feature code before the phone number (for example, *72 555 1212).

Store the call forwarding feature code

- 1 Press **Menu 4-7-2** (**Settings > Network services > Network feature setting**).
The Feature code field appears.
- 2 Enter the feature code your service provider gave you and press **OK**.
- 3 Press **Scroll up** or **Scroll down** to scroll to **Call forwarding** and press **Select**.
- 4 Scroll to each **Call forwarding** option you want, and select each one; then scroll to **Activate**, and press **Select**, for each option.

Activate call forwarding

- 1 Press **Menu 4-7-2** (**Settings > Network services > Network feature setting**).
- 2 Scroll to the desired call forwarding option, as described in the following list, and press **Select**.

Forward all calls	Forwards all incoming calls.
Forward if busy	Forwards calls only when you are on your phone.
Forward if not answered	Forwards calls if you do not answer. This option is handy if you want to give your phone to someone for a short period of time, but you do not want them to answer the phone.
Forward if out of reach	Forwards calls if you are out of reach for your wireless network or if your phone is turned off.
Cancel all call forwarding	Cancels all forwarding options that are currently active.

- 3 Highlight **Activate** and press **Select**.
 - 4 In the **Number** field, either enter the number to which you want your calls forwarded or press **Find** to find this number in the phone book (if you have stored the number in the phone book).
 - 5 Press **OK**.
- Your phone calls the network to confirm the feature code that you entered in **Menu 4-7-2**. After the network confirms the feature code, call forwarding is activated.

• REDIAL AUTOMATICALLY

Occasionally, your calling network may receive heavy traffic which can cause you to receive a *fast* busy signal when dialing a number. If the network is busy, your phone will automatically redial the desired number and notify you once the network becomes available.

- When a network is busy, your phone redials the number up to three times.
- If you want to stop this process prior to the last attempt, press **End**. This stops the automatic redialing.

Before you can use the automatic redial feature, you must activate it.

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

• 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 (part 1)

- 1 Press **Menu 4-3-2 (Settings > Call settings > Calling card)**. Enter your security code, when prompted.

Advanced calling features

- 2 Scroll to card **A, B, C, or D** and press **Options**.
- 3 Scroll to **Edit** and press **OK**.
Dialing sequence appears.
- 4 Press **Select**.
- 5 Press **Scroll up** or **Scroll down** to scroll through the list of dialing sequences, as described in the following table.

Dialing sequence	Use for cards that require you to
Access number + phone number + card number	Dial 1-800 access number; then phone number, and then card number (+ PIN if required).
Access number + card number + phone number	Dial 1-800 access number; then card number (+ PIN if required), and 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, and then card number (+ PIN, if required).

- 6 Press **Select**.

(part 2)

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

- 7 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.
- 8 When prompted to enter a calling card number (usually shown on the front of the calling card), enter the number (and PIN number if required) and press **OK**.

- 9 Press **OK** again when the **Save changes?** message appears.
- 10 Press **Scroll up** or **Scroll down** to scroll to **Card name**, press **Select**, and enter the card name using your phone's keypad.
- 11 Press **OK**.

Choose a calling card to use

If you have more than one calling card, you must choose one before making a call.

- 1 Press **Menu 4-3-2 (Settings > Call settings > Calling card)**.
Enter your security code when prompted.
- 2 Scroll to the desired card and press **Options**.
- 3 Press **Scroll up** or **Scroll down** to highlight **Select** and press **OK**.
The message **Card ready for use** appears.

Make a calling card call


- 1 Enter the phone number, including any prefix (such as 0 or 1) that your calling card might require when you make a calling card call.
See your calling card for instructions.
- 2 Press and hold **Talk** 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**.
After the tone, your phone displays the message **Wait for tone, press OK again**.
- 4 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 local or long distance company.

• VOICE DIALING

You can dial up to 10 of your stored phone book numbers using the voice dialing feature. Before you can place a call using voice dialing, you must first assign a voice tag to the number.

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

Assign a voice tag to a phone number

1 At the start screen, scroll to the name to which you want to give a voice tag.

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


3 Press **Select**.

The phone displays **Press Start; then speak after tone**.

4 Press **Start**.

You hear several beeps, and **Please speak now** appears.

5 Speak clearly into the microphone.

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

The phone automatically stops recording and then saves and replays the voice tag.

VOICE TAG ERRORS

If recording is not successful, you may see one of the following error message:

Voice too quiet, try again?

Voice tag too long, try again?

Voice tag too short, try again?

Press **OK** to try again.

Before using voice dialing, note the following:

- Voice tags are not language-dependent. They are dependent on the speaker's voice.
- Voice tags are sensitive to background noise. For best results, record them, and make calls in a quiet environment.

- When recording a voice tag or making a call by saying a voice tag, hold the phone in the normal position near to your ear.
- Voice tags must be shorter than 2 seconds, but very short names are not accepted. Use long names and avoid similar names for different numbers.



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

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

DIAL A NUMBER USING VOICE DIALING

- 1 Press and hold **Contacts**.

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

If you have the optional headset attached, press and hold the headset button; then when the phone beeps and **Please speak now** appears, release the button.

- 2 Pronounce the voice tag clearly into the microphone.

When the phone finds the voice tag, the phone automatically dials the number.

If the phone does not locate a number, you hear an error tone and **No match found** appears. To start voice dialing again, press and hold **Contacts** (or the headset button) immediately after the error tone.

Play back a voice tag

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

Change a voice tag

- 1 Press **Contacts** and scroll to **Voice tags**.
- 2 Press **Select**; then scroll to the name with the voice tag you want to change.
- 3 Press **Options**, scroll to **Change**, and press **OK**.
The phone displays **Press Start; then speak after tone**.
- 4 Press **Start**.
The phone repeats your voice tag, and **Voice tag saved** appears.

Erase a voice tag

- 1 Press **Contacts** and scroll to **Voice tags**.
- 2 Press **Select**; then scroll to the name with the voice tag you want to delete.
- 3 Press **Options**, scroll to **Delete**, and press **Select**.
Delete voice tag? appears.
- 4 Press **OK** to delete the voice tag.

• VOICE RECORDER

This feature allows you to record speech or sounds with your phone. You can record information such as phone numbers and personal memos, but the voice recorder can also record an active phone conversation. The total available time is 180 seconds if no memos have been stored. The maximum length of a recording depends on how much memory remains available. The length of time remaining for a current recording will be displayed on your phone's screen.



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

Record speech or sound

- 1 Press **Menu 5-1-1 (Voice > Recorder > Record)**.
After the *recorder start tone* is heard, the phone begins recording.

- 2 When you finish recording, select the **Stop** option.
A **Title** box appears.
- 3 Enter the title you wish to assign to the recording and press **OK**.

Record while in a call

- 1 While in a call, press **Options**; then select **Record**.
After the *recorder start tone* is heard, the recorder begins recording the phone conversation. Also, the *recorder recording tone* will play every 5 seconds to remind the other person on the call that the conversation is being recorded.
- 2 When recording is done, select the **Stop** option.
Recording saved appears, and the recording is saved in the Recordings list.

View recording list and play recordings

- 1 View your saved recordings by selecting the **Recordings list** option: press **Menu 5-1-2 (Voice > recorder > Recordings list)**.
- 2 Scroll to the recording you would like to play, press **Options**; then select **Playback**.
- 3 End the playback by selecting **Stop**.

Delete a recording

From the **Recording list** menu, select the recording you would like to delete, press **Options**; then select **Delete**.

Edit a recording title

- 1 Go to the **Recordings list**, scroll to a recording, and press **Options**.
- 2 Scroll to **Edit title**, and press **Select**.
- 3 Edit the title as needed and press **OK**.

Set the voice memo alarm

- 1 Go to the **Recordings list**, scroll to a recording and press **Options**.

- 2 Scroll to **Add alarm** and press **Select**.
- 3 Enter the alarm date and time, and press **OK**.

When the alarm sounds, press **Stop**; then **Play** to hear the recording.

- **VOICE COMMANDS**

The voice command feature allows hands-free operation of certain phone features. Voice commands work similar to voice dialing. Before using voice commands, you must first associate a voice tag to the phone function. You can set as many as five voice commands.

View available functions

Press **Menu 5-3 (Voice > Voice commands)** and scroll through the list of functions.

Phone feature	You can add a voice command to select a profile, or activate a feature
Profiles	Normal
	Silent
	Meeting
	Outdoor
	Pager
Voice mailbox	Check your voice messages
Recorder	Record
Call log	Set up a voice command to take you to your call log


Add a voice tag for the command

- 1 Press **Menu 5-3 (Voice > Voice commands)**.
- 2 Scroll to the phone function you wish to tag; then press **Select**.
- 3 Press **Options**; then select **Add command**.

- 4 Press **Start**; then speak the voice tag clearly into the microphone.



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

The phone replays then saves the recorded tag. The  icon appears next to commands which have voice tags assigned.

Activate a voice command

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

- 1 If you have the optional headset attached, press and hold the headset button.
OR
Press and hold **Contacts**.
- 2 When **Please speak now** appears, pronounce the voice tag clearly into the microphone.

When the phone finds the tag, **Found** appears, and the command is issued.

Work with an existing voice command tag

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

- Listen to the tag (Playback)
- Change the tag
- Delete the tag

• SEND YOUR OWN NUMBER IN CALLER ID

With each call you place, you can determine 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.

Advanced calling features



Note: Send own caller ID when calling 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.

Before you can use **Send own caller ID when calling**, 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 4-7-2** (**Settings > Network services > Network feature setting**).
- The **Feature code** field appears.
- 2 Enter the feature code from your service provider and press **OK**.
- 3 Press **Scroll up** or **Scroll down** to scroll to **Send own caller ID** and press **Select**.
- 4 Highlight **Yes** and press **Select**.

The phone then displays **Feature code saved in menu**.

Allow your number to appear

- 1 Press **Menu 4-7-2** (**Settings > Network services > Network feature setting**).
- 2 Enter the feature code from your service provider.
- 3 Press up or down to scroll to **Send own caller ID when calling** and press **Select**.
- 4 Scroll to **Yes** if you want to show your number.
- 5 Press **Select**.

• 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. 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: You may not need 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 4-7-6 (Settings > Network services > 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 and receive calls and to use mobile messaging services.

Select digital or analog

Your phone can work in both digital and analog modes. The default mode is digital and analog, which appears on your phone as **Digit. & analog** when you press **Menu 4-7-7 (Settings > Network services > System selection)**.

This means that your phone uses both digital and analog voice channels. The phone always tries to find a digital voice channel first, but if a digital voice channel is not available, the phone looks for an analog voice channel.



Note: This feature is available only for certain phones. Contact your service provider for more information.

- **SET TOUCH TONES**

Touch tones (or DTMF tones) are sounds that are produced when you press the keys on your phone's keypad. 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. Touch tones can be sent only when a call is active.



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

Set manual touch tones

- 1 Press **Menu 4-4-3-1** (**Settings > Phone settings > Touch tones > Manual touch tones**).
- 2 Select one of the following options, and then press **Select**:

Continuous	The tone sounds for as long as you press and hold a key.
Fixed	Sets the length of touch tones to Short .
Off	Turns off the tones. No tones are sent when you press a key.

Set touch tone length


You can also set the length of each touch tone.

- 1 Press **Menu 4-4-3-2** (**Settings > Phone settings > Touch tones > Touch tone length**).
- 2 Use **Scroll up** or **Scroll down** to scroll to **Short** or **Long**.
Short sets the tone length to 0.1 second. Long sets the tone length to 0.5 second.
- 3 Press **Select**.

Store touch tone strings

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

STORE TOUCH TONE STRINGS WITH PHONE NUMBERS

- 1 Enter the phone number that you want associated with a touch tone.
- 2 Press ; then select **w** or **p** where needed.

w (wait): When you dial this phone number, your phone first dials the number, and 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 4-4-3-1** (**Settings > Phone settings > Touch tones > Manual touch tones**).
- 2 Make sure that the setting is not set to **Off**.
If set to off, press **Scroll up** or **Scroll down** to scroll to one of the other options and press **Select**.
- 3 During your call, press **Options**, scroll to **Touch tones**, and press **Select**.
- 4 Enter the touch tone string or retrieve 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 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 notifies you when you receive a voice message (see “Set the message alert tone” on page 68). The message **New voice message** appears on your phone’s screen, along with the  icon.

If you have received more than one voice mail message, depending on your wireless network, your phone may show the number of messages that you have received.



Note: To use voice mail, you need to learn the various greetings, passwords, and prompts of the voice mail system. 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 0-1-9-2 (Messages > Voice messages > Voice mailbox number)**.

Mailbox number appears.

- 2 Enter your voice mailbox phone number; then press **OK**.

Your voice mailbox number can be up to 32 digits long and is used until changed. Therefore, if your phone number changes, you may need to change your voice mailbox number along with it.

- **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 method for listening to your voice messages varies, depending 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 **1**.

OR

Press **Menu 0-1-9 (Messages > Voice messages)**. Select **Listen to voice messages**.

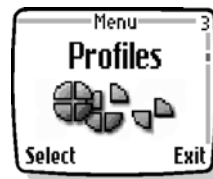
The message **Calling voice mailbox** appears on the screen. Follow the prompts to review your messages.

10 Personalize rings and tones

• PROFILES

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
- Ringing tone
- Ringing volume
- Vibrating alert
- Message alert tone
- Keypad tones
- Warning tones
- Alert for
- Profile name (except for Normal)



Your phone comes with five profiles, and each can be customized:

- Normal (default setting)
- Silent
- Meeting
- Outdoor
- Pager

• SELECT A DIFFERENT PROFILE

- 1 Quickly tap the power key or press **Menu 3**.
- 2 Press **Scroll up** or **Scroll down** 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 (Profiles)**.
- 2 Scroll to the desired profile in the list.
- 3 Press **Select** to view the options for the selected profile.

Select	Activates the currently highlighted profile.
Customize	Enables you to customize a profile by changing the current settings. Press Select to choose from several lists.
Timed	Allows you to set a time length for the expiration of a profile setting.



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

Set ring 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 (Profiles)**.
Your phone lists each profile.
- 2 Press **Scroll up** or **Scroll down** 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 **Ring** and press **Select**.
- 5 Scroll to one of the ringing options, as described below, and press **Select**.

Ring	The phone rings normally.
Ascending	Ring 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 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 the 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 ring options" on page 66 for details.

- 1 Press **Menu 3 (Profiles)**.
Your phone lists each profile.
- 2 Press **Scroll up** or **Scroll down** to scroll to the profile for which you want to set the ringing tones.
- 3 Press **Select**.
- 4 Scroll to **Customize** and press **Select**.
- 5 Scroll to **Ringling tone** and press **Select**.
- 6 Scroll through the options; when you hear the tone you want, press **Select**.

Set the ring volume

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

- 1 Press **Menu 3 (Profiles)**.
- 2 Press **Scroll up** or **Scroll down** to scroll to the profile for which you want to set the ringing volume, and press **Select**.
- 3 Scroll to **Customize** and press **Select**.
- 4 Scroll to **Ringling volume** and press **Select**.

- 5 Scroll through the options; when you hear the volume level you want, press **Select**.



Note: As you scroll through the ringing options, pause to hear a sample of the tone. Although the ringing sample for level 4 and level 5 are the same, ringing level 5 will produce very loud ringing.

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

The phone does not vibrate when connected to any charging device.

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 (Profiles)**.
- 2 Press **Scroll up** or **Scroll down** 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 Press **Scroll up** or **Scroll down** to scroll through your choices.
The phone plays samples of each choice as you scroll to it.
- 6 Press **Select** for the tone you want.

Set keypad tones

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

- 1 Press **Menu 3 (Profiles)**.
- 2 Press **Scroll up** or **Scroll down** 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 Press **Scroll up** or **Scroll down** to scroll to one of the levels and press **OK**.
 - If you choose **Off**, no keypad tones are heard.
 - If you chose the **Silent profile** in step 2; then the keypad tones are turned off.

Set warning tones

You can set warning tones and the tones used for the games 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 (Profiles)**.
- 2 Press **Scroll up** or **Scroll down** to scroll to the profile for which you want to set the warning tones, and press **Select**.
- 3 Scroll to **Customize**.
- 4 Select **Warning tones** and 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**.



Note: Game sounds can only be set under the Games menu.

ALERT FOR

You can choose to have your phone sound an audible alert only when a member of a selected caller group is calling. For more details, see "Create caller groups" on page 40.

RENAME A PROFILE

You can rename any of the profiles except **Normal**. You may want to use your own name for one of the profiles. If you do this; then whenever that profile is selected, your name appears on the start screen.

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

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 one-touch dialing.

• SET THE LANGUAGE

You can set your phone to use a certain language.

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

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

• 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 "Alarm clock" on page 117 for details.

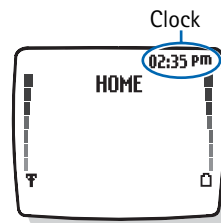
Set the clock

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

The **Time** field appears.

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

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



- If you set time format to **am/pm**, press **Scroll up** or **Scroll down** to scroll to **am** or **pm** and press **Select**.
- 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 4-2-2-1** (**Settings > Time settings > Clock > Show/Hide clock**).
- 2 To show the clock, scroll to **Show clock** and press **Select**.
- 3 Select **Hide clock** if the clock is showing and you do not want to see it.

Select the am/pm or 24-hour format

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

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

• SET THE CLOCK TO BE UPDATED BY THE NETWORK

You can set your phone clock to be updated by the network, if supported by your network service.

Turn on the network date and time update

- 1 Press **Menu 4-2-3** (**Settings > Time settings > Auto-update of date and time**).
- 2 Scroll to **On** or **Confirm first**; then press **Select**.
If you choose **Confirm first**, you will receive a confirmation message before the clock is updated. Select **OK** to accept the update, or **Exit** to reject it.

Turn off the network date and time update

- 1 Press **Menu 4-2-3** (**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 44 characters.



- 1 Press **Menu 4-4-4** (**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 **Scroll up** or **Scroll down** to move the cursor right or left.
- 3 Press **Options**.
- 4 Scroll to **Save** and press **Select**.

If you ever want to delete the welcome note, select **Delete** instead.

• ACTIVATE OR DEACTIVATE THE START-UP TONE

You can set your phone to play a brief start-up tone when you switch it on.

- 1 Press **Menu 4-4-6** (**Settings > Phone settings > Start-up tone**).
- 2 To activate the start-up tone, scroll to **On**; then press **Select**. To deactivate, scroll to **Off**; then press **Select**.

• 1-TOUCH 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, assign a name from the phone book to a 1-touch dial location, using phone keys **2–9**. When you press and hold the key, the phone automatically dials the associated number.

- **1** key: This key is used exclusively to dial your voice mailbox.
- **2** key: You can use this key to dial a customer care operator. See "Contact your service provider" on page 9 for details. You can overwrite this feature and assign a 1-touch dial location to the **2** key.

Set up a 1-touch dial key

- 1 Press **Contacts** and scroll to **1-touch dialing**.
- 2 Press **Select**.
- 3 Press **Scroll up** or **Scroll down** to scroll to the first number that includes the message **(empty)** and press **Assign**.
- 4 Press **Find** or the **Scroll up** or **Scroll down** to scroll to the name and number to which you want to assign this key and press **Select**.

Repeat these steps 1–4 for as many keys as you want to set up.

Use 1-touch dialing

To call a number using speed dialing, press and hold the appropriate key for a few seconds.

The phone dials the number.

Change 1-touch 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 **Contacts**, 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 retrieve a number from the phone book.
- 5 When you have entered the number, press **OK**.

OR

If you have 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**.

Delete speed dialing numbers

You can delete speed dialing key assignments at any time.

- 1 Press **Contacts**.
- 2 Press **Scroll up** or **Scroll down** to scroll to **1-touch dialing** and press **Select**.
- 3 Scroll to the key with the number you want to delete and press **Options**.
- 4 Scroll to **Delete** and press **Select**.
- 5 Press **OK**.

• AUTOMATIC ANSWERING

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 hands-free kit that is equipped with the ignition sense option, with the ignition on.

- 1 Press **Menu 4-6-1-2** (**Settings > Accessory settings > Headset > Automatic answer**).

You must select **Loopset** or **TTY/TDD** to activate **Autoanswer** for those features.

- 2 Press **Scroll up** or **Scroll down** 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 hands-free kit or headset.

- **PHONE 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 entire time that the phone is connected to the car kit.

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

- 1 Press **Menu 4-6 (Settings > Accessory settings)**, scroll to **Handsfree**; then select **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 **OK**.

Lights—automatic	Instructs the phone to turn off the lights within 15 seconds if no keys are pressed.
Lights—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. You can return them to the original settings when needed.



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

- 1 Press **Menu 4-9 (Settings > Restore factory settings)**
- 2 Enter your security code and press **OK**. (See "Manage phone security" on page 81 for more details about the security code.)

- **ACCESSIBILITY SOLUTIONS**

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. Nokia maintains a site on the World Wide Web that is dedicated to accessibility solutions. For more information about phone features, enhancements, and other Nokia products designed with your needs in mind, visit www.nokiaaccessibility.com

Alternate format user guides

This user guide is available in alternate formats, including:

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

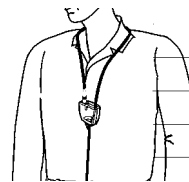
LPS-3 Mobile Inductive Loopset

The LPS-3 loopset is a Nokia enhancement designed to make the phone more accessible to hearing-aid users.

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.

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 enhancement.

Accessible features

Your phone has many accessible features, including these:

- Tactile feedback when you press a key
- Adjustable display contrast
- Equalizer
- Ability to send and receive short text messages
- E-mail
- Convenience of 1-touch dialing
- Vibrating alert for incoming calls and messages

TTY/TDD capable

This feature makes the phone more user friendly for hearing-impaired users. This is a network-dependent feature. Contact your service provider to ensure that they support this feature.

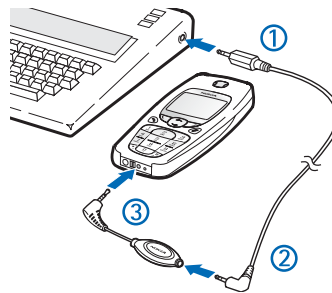
REQUIRED TTY/TDD EQUIPMENT

To send and receive messages using a TTY or TDD device, you will need the following equipment (in addition to your phone):

- A TTY/TDD device that is "cellular ready" or "cellular compatible"
- A connector cable, usually supplied with the TTY/TDD device
- The Nokia TTY/TDD cable HDA-8 Phone Adapter, which can be purchased as an enhancement

Connect to the TTY/TDD device

- 1 Connect the cable to the TTY machine.
- 2 Connect the cable to the adapter.
- 3 Connect the adapter to the phone.



Make a call with TTY/TDD

- 1 At the start screen, press **Menu 4-5 (Settings > Accessory settings)**.
- 2 Select **TTY/TDD**.
- 3 Select **Use TTY**; then scroll to **Yes**.
- 4 Dial the number on the phone; then press **Talk**.
- 5 When the receiving party answers, you can begin typing text on the TTY/TDD.

Receiving a TTY/TDD call

- 1 Ensure that the TTY/TDD and phone are powered on and are connected, and ensure **TTY/TDD** setting in **enhancements** is set to **Yes**.
- 2 Once contacted by the other party, type responses on the TTY/TDD.

End a TTY/TDD call

Press **End** to end your call.

12 Manage phone security

Your phone is equipped with 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, an * 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 will not accept any entries for the next five minutes. However, if you realize that you have entered the code incorrectly before pressing **OK**, you can use **Clear** to delete the code, digit by digit, beginning with the last digit.

Your phone is equipped with different security features that help you:

- Avoid making accidental calls
- Prevent unauthorized use of your phone
- Restrict outgoing or incoming calls
- Avoid erasing your phone book directory

• LOCK THE KEYPAD (KEYGUARD)

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



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

Manual Keyguard

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

If the phone rings with Keyguard on, press **Send** or **Answer** to answer the call.

Automatic Keyguard

You can set your phone to automatically lock the keys.

- 1 Press **Menu 4-4-2** (**Settings > Phone settings > Automatic keyguard**).
- 2 Scroll to **On** and press **Select**.
Set delay appears, with the time displayed in *mm:ss*.
- 3 Enter the amount of time you want the phone to wait before turning Keyguard on, and press **OK**.

For example, to enter five minutes, press **0, 5, 0, 0**; then **OK**.

A confirmation message appears.



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

Automatic Keyguard activates after the specified time *only* if you are in the start screen. If you are in the menus, contacts, games, or applications, automatic Keyguard does not activate until you return to the start screen.

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

• CHANGE YOUR SECURITY CODE

Nokia highly recommends that you immediately change your security code so that others who know the default code cannot enter the correct code.

- 1 Press **Menu 4-8-2-1** (**Settings > Security settings > Access codes > Change security code**).

The **Security code** field appears.

Manage phone security

- 2 Enter the default security code (1–2–3–4–5) 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 do not remember the new code, contact your service provider. Once you have changed your security code, the default setting is no longer valid.

• **PHONE LOCK**

This feature protects your phone from unauthorized outgoing calls or unauthorized access to information stored in the phone. When phone lock is activated, **Phone locked** is displayed in the start screen when you turn the phone on.

When you press **Menu** or **Contacts**, you are prompted to enter the lock code. Once the lock code has been accepted, the phone functions normally.



Note: **Call not allowed** is displayed if you attempt to place a call while the phone is locked.



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

Lock code

In addition to a security code, your phone also has a lock code. You will need the lock code to activate and deactivate the phone lock feature or to change your lock code.

The default lock code is 1234. If you enter an incorrect lock code five times in a row, your phone will prompt you for the security code (see “Change your security code” on page 82).

Change your lock code

- 1 Enter **Menu 4-8-2-2** (**Settings > Security settings > Access codes > Change lock code**) and press **Select**.
- 2 Enter the current (or default) lock code and press **OK**.
- 3 Enter the new lock code and press **OK**.
- 4 Reenter the new lock code for verification; then press **OK**.



Note: When you change your lock code, make sure you store it in a safe place, away from your phone. Avoid entering access codes similar to emergency numbers to prevent accidental emergency calls.

Activate and deactivate phone lock

- 1 Press **Menu 4-8-2-3** (**Settings > Security settings > Access codes > Phone lock**).
- 2 Enter the lock code; then press **OK**.
- 3 Scroll to **On power-up, On, or Off**; then press **Select**.
- 4 If you selected **On power-up**, turn the phone off and back on to complete the phone lock activation.

Answer a call with phone lock on

Press the **Talk** key or **Answer**.

Allowed number when phone locked

When phone lock is on, the only outgoing calls that can be made are to the following numbers:

- The emergency number programmed into your phone (for example, 911 or other official emergency number)
- The number stored in the **Allowed number when phone locked** location

Store the allowed phone number

- 1 Press **Menu 4-8-2-4** (**Settings > Security settings > Access codes > Allowed number when phone locked**).
- 2 Enter the lock code and press **OK**.
- 3 Press **Assign** and enter the phone number (or press **Find** and recall the number from the phone book).
- 4 Press **OK**.

Call the allowed phone number

With the phone locked, at the start screen, press the up or down scroll key to display the number; then press the **Talk** key to place the call.

• RESTRICT CALLS

You can restrict incoming and outgoing calls. To restrict outgoing calls, you create a list of restrictions 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 10.



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

Add a number to the call restriction list

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

- 1 Press **Menu 4-8-1** (**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 retrieve the number from the phone book; then press **OK**.

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

Contact name appears.

- 6 Enter a name for the restriction, if needed, and 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 options become available:

Select	Allows you to select call restrictions from the outgoing 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 4-8-1 (Settings > Security settings > Call restrictions)**.
- 2 When **Security code:** appears, enter your security code, and press **OK**.
Restrict outgoing calls appears.
- 3 Press **Select**.
- 4 Scroll to **Add restriction** and press **Select**.
- 5 Enter a number or press **Find** to retrieve a number from your phone book, and press **Select**; then **OK** to verify the number.
The **Contact name** box appears.
- 6 Enter a contact name, if needed, and press **OK**.
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.

If you have not added any numbers for call restrictions, your only option will be **All calls**.

Restrict incoming calls

- 1 Press **Menu 4-8-1** (**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 **Add Restriction** and press **Select** to choose from your list of call restrictions.
- 5 Enter a number or press **Find** to retrieve a number from your phone book, and press **Select**; then **OK** to verify the number.

The **Contact name** box appears.

- 6 Enter a contact name, if needed, and press **OK**.

If you have not added any restrictions, your only option will be **All calls**.

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,

- 1 Press **Menu 4-8-1** (**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**, and 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 number you want to *deactivate* and press **Unmark**.

You are asked if you want to save changes.

- 6 Press **Yes**.

The restriction is turned off.

13 Your personal digital assistant

Your phone features a personal digital assistant which includes a calendar, to-do list, a calculator and a stopwatch. Each of these features will help you organize different facets of your personal and business life efficiently.

• CALENDAR

The calendar keeps track of notes, calls, meetings, and birthdays. It can also sound an alarm when it is time for you to make a call, go to a meeting, or wake up.

To get to the Calendar feature, press **Menu 7-1 (Organizer > Calendar)**.



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

Open the calendar/enter the day list

At the start screen, press **Menu 7-1 (Organizer > Calendar)**. After a brief pause, the month appears in the display.

Use four-way scrolling in the calendar

You can move through many of the calendar's features (such as day view), using the 2, 4, 6, and 8 keys.

- Press **2** to scroll up
- Press **8** to scroll down
- Press **4** to scroll left
- Press **6** to scroll right

Calendar options in day view

OPTION 1: VIEW DAY

This option allows you to view notes added to a specific day.

OPTION 2: MAKE A NOTE

- 1 To make a note for a specific date, select the date, press **Options**; then select the **Make a note** feature.

There are five different types of notes to choose from: **Meeting**, **Call**, **Birthday**, **Memo**, and **Reminder**.

- 2 Scroll to the desired note type and press **Select**.



Note: If you have activated Predictive text for writing messages, it is also active in the Calendar feature. See "Turn on predictive text input" on page 31.

The maximum length of a calendar note is 256 characters.

- 3 Press **Select** to save your note.
- 4 At the prompt, choose whether or not you want to set the alarm:
 - Meeting**—Type your note text and press **Options** and **Save**. Enter the time and press **OK**.
 - Call**—Enter the phone number or press **Find** to retrieve it from your phone book, press **Options**; then **Save**. Enter the time and press **OK**.
 - Birthday**—Enter the person's name (or press **Options**, and **Find** to retrieve a name from the phone book), press **Options**; then **Save**. Enter the birth year. Next, select **No alarm**, **Silent**, or **With tone**. The note then displays the person's age.
 - Memo**—Enter a subject for the note and press **Options**; then **Save**. Enter the date, choose **No alarm**, **Silent**, or **With tone** and press **Select**. Reminder options range from On the day up to Week before or Other date. Choose one of the options, enter a time, and press **OK**.
 - Reminder**—Enter the reminder, and press **Options**. Scroll to **Save** and press **Select**.

OPTION 3: GO TO DATE

- 1 To jump to a specific date, enter the date and press **OK**.
The **Week list** appears and the day just entered is highlighted.
- 2 Press **Options**.
All calendar options are available.

OPTION 4: SETTINGS

- The **Settings** option allows you to set the date, time, date format, date separator, time format and the week starts format for the calendar.
- The **Auto Delete** option allows you to set the phone to automatically delete old notes after a certain period of time. However, repeat notes such as birthday or anniversary notes will not be deleted.

SEND NOTE

Send a note directly from your calendar to another phone as a note.

- 1 While viewing the note, press **Options**.
- 2 Scroll to **Send note** and press **Select**.
- 3 Scroll to **As note** and press **Select**.
- 4 Enter the phone number, or press **Find** to retrieve it from the phone book, and press **OK**.

A confirmation message appears.

Send a note directly from your calendar to another phone as text message

- 1 While viewing the note, press **Options**.
- 2 Scroll to **Send note** and press **Select**.
- 3 Scroll to **As text msg.** and press **Select**.
- 4 See "Write and send a text message" on page 100 for more details.

• TO-DO LIST

Use this feature to create a to-do list and prioritize to-do items.

ADDING A TASK

- 1 Press **Menu 7-2 (Organizer > To-do list)**.
- 2 Press **Options**, and select **Add**.
- 3 Enter the subject of the **To-do list** and press **Options**; then **Save**.
- 4 Scroll to the desired priority (1, 2, or 3) and press **Select**.

You can change the priority later by using the **Options** menu:
Edit priority.

VIEWING TASKS

Once in the **To-do** list, scroll to an item and press **Options**; then select **View** to view its details.

From the **Options** menu, you can view, add, delete, or edit a task. You can also edit the priority of a task, save a task to your calendar, turn predictive text (**Dictionary**) on/off, or send your task as text, using SMS.

• THE CALCULATOR




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

Your phone's calculator adds, subtracts, multiplies, divides, and calculates exchange rates.

- 1 Press **Menu 7-3 (Organizer > 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 Pound .
Add	Press Star for + symbol.
Subtract	Press Star twice for - symbol.
Multiply	Press Star three times for * symbol.
Divide	Press Star four times for / symbol.
Square the number	Press Options , scroll to Square , press Select .
Calculate square root	Press Options , scroll to Square root , press Select .
Change sign	Press Options , scroll to Change sign , press Select .

- 4 Enter the second number in the calculation.
Repeat steps 3 and 4 as many times as necessary. Press **Clear** to erase any mistakes.
 - 5 Press **Options**, press **Scroll up** or **Scroll down** to scroll to **Equals**, and press **Select**.
-  **Note:** This calculator has limited accuracy and rounding errors may occur, especially in long divisions.

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 7-3 (Organizer > Calculator)**; then press **Options**.
Exchange rate appears.
- 2 Press **Select**.
- 3 Select: **Foreign units converted to home units** or **Home units converted to foreign units**; then press **Select**.
The exchange rate box opens, with the number 0.
- 4 Enter the appropriate number and press **OK**.
The number 1 is overwritten by the number you entered. To enter a decimal point, press **Pound**.
- 5 Press **OK**.
The **Exchange rate saved** message appears.

CALCULATE CURRENCY USING THE EXCHANGE RATE

- 1 Press **Menu 7-3 (Organizer > 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 **OK**.

• **STOPWATCH**

You can use your stopwatch feature to measure time in hours, minutes and seconds with your phone. This measured time can be saved, viewed, or erased.



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

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

Measure split time

- 1 Press **Menu 7-4 (Organizer > Stopwatch)**.
- 2 Scroll to **Split timing**, press **OK**; then press **Start**.
- 3 Take an intermediate time by pressing **Split**.

The clock continues to run.

The split time appears below the running time.

If you split the time more than once, the new measured time appears at the beginning of the list, and all times are numbered in descending order.

Measure lap time

The lap time function allows you to measure the amount of time it takes to complete a cycle or lap.

- 1 Press **Menu 7-4 (Organizer > Stopwatch)**
- 2 Scroll to **Lap timing**; then press **OK**
- 3 Press **Start**.

The running time appears on the display.

- 4 Take a lap time by pressing **Lap**.

Pressing **Lap** will stop the running time and cause it to restart from zero.

Each lap time will appear below the running time.

If you take more than one lap time, the newest measured time will appear at the top of the list of lap times. You can scroll to review previous times.

Save the time

- 1 While the clock is running, press **Stop**; then press **Options**.

- 2 Scroll to **Save**, enter a title for the measurement; then press **OK**.

If a title is not entered, the time measurement will be used as a title.

Other stopwatch options

You can choose the following options when using the stopwatch.

Choice	What it does
Continue	Shows up when the stopwatch is working in the background.
Show last time	Allows you to view the last measured time.
View times	Allows you to browse the saved times.
Delete times	Allows you to delete the saved times. You can delete the saved times one by one or all at once.



Note: If you receive a call when using the stopwatch, the clock continues to run in the background. After ending the call, you can return to the Stopwatch menu by taking the following steps:

- 1 Press **Menu 7-4 (Organizer > Stopwatch)**; then scroll to **Continue**.
- 2 Press **OK**.

14 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.



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

- **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 have activated the service.

ACTIVATE PREPAID

- To activate prepaid services, enter the following sequence:

Star Pound 7 7 6 6 Pound (*#7766#)

Prepaid menu enabled appears on the screen.

DEACTIVATE PREPAID

- To deactivate prepaid services, enter the following sequence:

Star Pound 7 7 6 3 3 Pound (*#77633#)

Prepaid menu disabled appears on the screen.

USE THE MENU

- To use the **Prepaid** menu, press **Menu**; then press **Scroll up** to go immediately to the **Prepaid** menu.
- Press **Scroll up** or **Scroll down** 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 (Prepaid > Save access phone numbers)**.
- 2 At **Save access phone numbers**, press **Select**.
- 3 Scroll to **Replenish phone number**, enter the access number from your service provider, and press **Select**.
- 4 Scroll to **Balance phone number**, enter the balance number 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 (Prepaid > Add money to account)**.
- 2 At **Card number**, enter your prepaid card number and press **OK**.
- 3 When you see the message **Add money to account**, press **OK**.
- 4 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.
- 5 When you see the message **Wait for prompt; then press OK**, press **OK**.

- **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.

To check the balance, press **Menu 11-1 (Prepaid > Check account balance)**. The phone calls your service provider, and a voice message gives you your balance.

15 Set network services features

You can subscribe to various network services whose 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 are using the correct feature code.

Menus for network features—Menus for the services described here appear on your phone only after you have 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.

• SET UP HOW YOUR PHONE SELECTS A NETWORK

Your phone may not show the options described here. For information, contact your service provider.

Search for a network

Press **Menu 4-7-7** (Settings > Network services > System selection).

You can choose from the following network 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

Using your phone outside its home area is *roaming*. Calls made or received while you are roaming may cost more than calls made in your home area. Check with your service provider for details.

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

16 Communicate with text messages

You can use your phone to send and receive short text messages and e-mail if your service provider offers the message feature and if you subscribe to the service. Both services are network dependent features, so you must consult your service provider.

- **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 or a phone with a different protocol, but you can send and receive e-mail messages.

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

- **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 edit and create. A template is like a form letter—a message you can use many times.

• 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 30.

- 1 Press **Menu 0-1-1 (Messages > Create message)**.

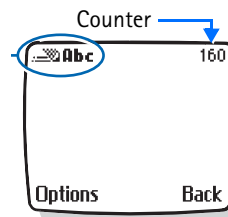
The message screen appears.

- 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 have finished writing, press **Options**; then select **Send**.

- 4 Enter or retrieve the recipient's phone number; then press **OK**.



Sending message appears. When the message is successfully sent, **Message sent** appears.



Tip: If you need to exit while writing the message, press **End** 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. , Read receipt , and Urgent . (Depending on your service provider, Read receipt may not be available.)
Save	Saves the message.
Clear text	Clears the message screen.
Exit editor	Takes you back to the Write message screen.

Insert contact	Lets you insert a name from the phone book.
Insert number	Lets you insert a number from the phone book.
Use template	Lets you insert a template.
Insert picture	Lets you attach a picture to a text message.
Insert word	Lets you insert a word that is not stored in the dictionary.
Insert symbol	Lets you insert a symbol from the symbols list.
Predictive text	Activates or deactivates predictive text.

- **RESEND A MESSAGE FROM 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 or find the number to which you want to send the message, and press **Send**.

- **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**—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**—An emergency message or page was sent by someone using 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**—The message has a high priority. These messages are indicated by an exclamation point (!).

• READ A TEXT MESSAGE

- 1 Press **Show**.

If only one message has been received; then the message is displayed. If more than one message has been received; then this action takes you to the **Inbox**, where the new message is highlighted.

- 2 Press **Select** to read the message.

- 3 Press **Options** for a list of choices you have while reading the message (see the list at the end of this section).

- 4 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.

Delete	Deletes 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 Talk 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 Talk .
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.

- **CUSTOMIZE MESSAGE SETTINGS**


Select **Menu 0-1-1-0 (Messages > Message settings)**

Two options are available under **Message settings**:

- **Sending profile**—Select **Sending profile to** view and access the features you can change in order to customize the default style of the messages you send from your phone.
- **Font size**—Choose between small and large fonts to customize your view of messages which you will read or edit.

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

- **DELETE MESSAGES**

You can delete a message individually or delete 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.

Delete a message

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

Delete messages from folders

- 1 Press **Menu 0–1–8 (Messages > Delete messages)**.
You will have the following options: **All read**, **Inbox**, **Outbox**, and **Archive**.
- 2 Scroll to the folder from which you want to empty all messages and press **Select**.
- 3 Enter your security code and press **OK**.
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.
- 4 The message **Messages deleted** appears.

- **REPLY TO A MESSAGE**

- 1 After reading a message, press **Options**.
- 2 Scroll to **Reply**, press **Select**, and choose one of the following reply options:
 - **As text message**
 - **As e-mail**
- 3 Once you select the type of reply, scroll to a reply option, press **Select**.
- 4 Edit your reply; then press **Options**.
- 5 Scroll to **Send**; then press **Select**.
The phone shows the return number.
- 6 Edit the number if needed, and then press **OK**.

- **FORWARD A MESSAGE**

- 1 While reading a message in the **Inbox**, press **Options**.
- 2 Scroll to **Forward**, press **Select**, and choose if your message should be sent **As text msg.** or **As e-mail**.
- 3 Press **Options** or edit the message and press **Options**.
- 4 Scroll to **Send**; then press **Select**.
- 5 Enter or retrieve the recipient's phone number; then press **OK**.



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

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

You can use your phone to send and receive e-mail messages. The e-mail feature is not available from all service providers.

Send an e-mail message

- 1 Press **Menu**, select **Messages**; then select **Create e-mail**.

The e-mail address box opens.

- 2 Enter the e-mail address, or press **Find**.

- If you press **Find**, enter the first few letters of the name you want and press **OK** 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, **E-mail address not found**.
- If you enter the e-mail address, press **OK** when you have finished.

The Subject box opens.

- 3 Enter a subject and press **OK**.

- 4 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 30.

- 5 When you have finished the message, press **Options**; then select **Send**.

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 When you get the message alert, press **Show**

OR

If the message is not on the screen, press **Menu 0-1-4 (Messages > Inbox)**. Select the message you received and press **Select**.

Communicate with text messages

- 2 Press **Options**, scroll to **Reply** or **Forward**, and press **Select**.
- 3 Scroll to **As e-mail** and press **Select**.
- 4 Choose a reply option and press **Select**.
The **E-mail** address box appears with the sender's e-mail address.
- 5 Press **OK**.
The **Subject** box appears.
- 6 Follow steps 3–5 in "Send an e-mail message."

• 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.

- 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 and edit 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 0-1-7 (Messages > Templates)**.
- 2 Scroll to the template you want and press **Select**.
- 3 Press **Options** to view the menu list:

Send	Sends the template as a text message.
-------------	---------------------------------------

Edit	Allows you to edit the template before sending.
Rename	Allows you to rename the template.
Use number	See "Other picture message options" on page 110.

Insert a template when writing a new message

- 1 Press **Menu 0-1-1 (Messages > Create message)**.
- 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.

• PICTURE MESSAGES

You can send picture messages with your phone. There are several images included in your phone and space for five additional pictures.



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.

Send picture messages


- 1 Press **Menu 0-1-1 (Messages > Create message)**, select **Options**, scroll to **Insert picture** and press **Select**.
- 2 Scroll to the picture you want to send; then press **View**.
The picture appears.
- 3 Select **Insert** to insert the picture into the text message.
OR
To choose a different picture, select **Back**, scroll to another picture; then select **View**.
- 4 Press **Options**, scroll to **Send**, and press **Select**.

Communicate with text messages

- 5 Retrieve from your phone book or enter the phone number to which you want to send the picture message.



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

- 6 Press **OK**. This icon  appears to show there is a picture attached.

Send picture messages with text

- 1 Press **Menu 0-1-1 (Messages > Create message)**, write your text message; then select **Options**.
- 2 Scroll to **Insert picture** and press **Select**.
- 3 Scroll to the picture you want to send, press **View**.
The picture appears.
- 4 Select **Insert** and press **Options**.

OR

To choose a different picture, press **Back**, scroll to another picture; then press **View**.

- 5 Select **Preview** to see the message and picture, or scroll to **Send** and press **Select**.
- 6 Enter the phone number to which you want to send the picture message and press **OK**.

Sending picture message appears.



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

Receive picture messages

- 1 When your phone displays **Message received**, press **Show**.
The message appears.
- 2 If the picture has a text message with it, scroll up or down to see the entire message.
- 3 Press **Options** and scroll to **Save** to keep the picture message, or select **Back** and **Exit** to delete it.

Other picture message options

Delete—Deletes the picture you select.

Reply—Let's you reply as a text message or e-mail.

Chat—Start a chat session with the person who sent the message.

Use number—Automatically lets you save any phone number included in the text of the picture message.

Forward—Send the message to a friend

Edit—Edit the message if needed.

Save—Save the message to your archive.

Rename—Create a new name for the 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 0-1-3 (Messages > Chat)**.
- 2 Enter the other party's phone number or retrieve it from the phone book and press **OK**.
- 3 At **My chat name:**, enter a name for the chat session (up to five characters) and press **OK**.
- 4 Write your chat message, press **Options**, and then press **Send**.
The reply from the other party is shown above your original message.
- 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**.

Communicate with text messages



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

Use predictive text for quick replies

When you are in a chat session, you can use the phone's dictionary to help speed up text entry.

- 1 Press **Menu 0-1-3 (Messages > Chat)**.
- 2 From the message screen, press **Options**.
- 3 Scroll to **Predictive text**; then press **Select**.
- 4 Scroll to the language you want; then press **Select**.

T9 Prediction on appears on the screen.

View chat history

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

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

Change your chat name

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

End your chat session

From the message screen select **Options**; then select **Quit**.



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

17 Special features

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

- **GALLERY (MENU 6)**



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

Open the gallery

At the start screen, press **Menu 6 (Gallery)**. After a brief pause, the submenus in the following table appear in the display.

Option	Function
View folders	Explore the folders in the gallery menu. See "View folders" in the following section for more info.
Add folder	Add a folder of your own.
Delete folder	Delete a folder you have created.
Rename folder	Rename a folder you have created.
^a Gallery downl.	Use the image and tone downloads in your phone; see the following for more information.

a. The phone tries to connect to the Internet using your browser and the currently active set of gallery downloads. If the connection fails, you may need to activate another set or change the current settings. See "Set up for browsing" on page 120 for more information.

View folders

- 1 At the Start screen, press **Menu 6 (Gallery)**, and then press **Select**.
- 2 Scroll to **View Folders** and press **Select**. A list of folders appears in the display.
- 3 Scroll to a folder, such as **Graphics** or **Tones** and press **Open**.
- 4 Scroll through the list of graphics or tones and press **Options**.
- 5 Press **Select** to activate one of the following options or to enter its submenu:

Option	Function
Open	Open the selected file.
Rename	Rename the selected file.
Set as wallpaper/Set as ring tone	Set the graphic as wallpaper. In the Tones folder, this option is Set as ringing tone ; the tone is applied to profile in use.
Details	View details of the file, such as the name, time and date the file was created.
Sort	Sort the files according to date, type, name, or size.

• APPLICATIONS (MENU 9)

With the **Applications** menu you can manage the Java applications installed on your phone. Your phone includes some Java applications specially designed for this phone. Various service providers offer other applications using WAP services. Check with your service provider for more information.

- 1 At the start screen, press **Menu 9-1 (Applications > Select app.)**.
- 2 Press **Select**.
One or more applications appear in the display.
- 3 Scroll to an application press **Options**.

- 4 Press **Open**. If the selection is a single application it launches. Otherwise, a list of applications in the selected application set appears.
 - To launch a single application within the set, scroll to the desired application, press **Options**; then press **Open**.

• APPLICATION OPTIONS

Option	Function
Open	Starts the application
Delete	Delete the application or application set from your phone.
Web access	Provides options for restricting network access Ask first (ask for net access) Allowed (allow net access) Not allowed (refuses net access)
Update version	Check if a new version of the application is available for download
Details	Shows additional information about the application

• DOWNLOAD APPLICATIONS

You can download new Java applications in different ways.

Use application downloads

- 1 At the start screen, press **Menu 9-2 (Applications > App. downloads)**.
- 2 Scroll to the appropriate bookmark that contains the application you wish to download, and press **Select** to connect to the WAP page. See "Connect to the Internet" on page 119 for information on browsing WAP pages.

OR

Scroll to **More bookmarks** and press **Select** to access the list of any bookmarks saved in your **Services** menu.



Note: This feature is network-dependent. Contact your wireless provider for more information.

Use game downloads

- 1 At the start screen, press **Menu 8-2 (Games > Game downloads)**.
- 2 Scroll to the appropriate bookmark that contains the application you wish to download, and press **Select** to connect to the WAP page. See "Connect to the Internet" on page 119 for information on browsing WAP pages.

OR

Scroll to **More bookmarks** and press **Select** to access the list of any bookmarks saved in your **Services** menu.



Note: This feature is network-dependent. Contact your wireless provider for more information.

If the connection fails, enter the **Services** menu and activate another set of service settings. See "Choose browser options" on page 121 for more information on browser settings.

Memory

Press **Menu 9-3** to view the amount of memory available. This memory is shared between Games, Gallery, and Applications.

• 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**.

Via text msg. appears highlighted.

- 5 Press **Select**.
Enter the phone number or recall it from the phone book
- 6 Press **OK**.
A confirmation message appears.

View a received business card

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



Note: If you press **Exit** at any time before you save the business card, **Discard business card?** appears. Choose **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 **OK**.

Delete a viewed business card

- While viewing the business card, press **Options**.
- Scroll to **Discard**; then press **OK**.

• RINGING TONES

You can download up to 10 additional ringing tones to the Gallery menu. 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, **Discard received ringing tone?** appears. Choose **OK** or **Back**.

Receive a ringing tone

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

- 1 Press **Options**.
- 2 Choose between **Playback**, **Save tone**, and **Discard**.

Save a received ringing tone

- 1 To save a ringing tone, press **Back**.
- 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 have downloaded previously.
- 4 Press **OK**.

The phone saves the new tone in the Tones folder under Gallery. For instructions on changing the ringing tone on your phone, see "Set the ringing tone" on page 67.

Discard received ringing tones

You can discard a ringing tone if you do not want to save it.

Press **Exit**.

OR

Press **Options**, scroll to **Discard**; then press **Select**.

• 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 sounds one quiet beep; then several quick, quiet beeps. These beeps continue and increase in volume until answered.
- If you have selected the **Silent** or **Beep once** ringing tone, the alarm clock quietly beeps once. The best profile to use with the alarm clock is **Normal** or **Outdoor**, unless these profiles have been modified from their original settings.



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



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

Set the alarm clock

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

Set alarm time 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 have chosen the am/pm format for the clock.

- 4 Press **OK**.

Alarm on appears, and the alarm clock icon  appears on the start screen.

Turn off the alarm clock

When the alarm clock sounds:

- Press **Stop** to turn it off.
- Press **Snooze** to set the alarm to go off again in 10 minutes. **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 sounding, waits 10 minutes, and then sounds again. This continues until you press **Stop**.

Deactivate the alarm clock

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

Alarm clock appears on the screen with the current alarm time.


- 2 Press **Select**, scroll to **Off**, and press **OK**.


18 Connect to the Internet

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

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




 **Note:** To use the browser, you may need to subscribe to additional services. Also, your service provider may need to configure your phone for browsing after you have subscribed. This is a network dependent feature. Contact your service provider for more information.

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

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 is 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 will find links to a number of other sites that offer wireless access.

 **Note:** The information or services you have accessed are stored in the cache of your phone. A cache is a buffer memory, which is used to store data temporarily. If you have tried to access or have accessed confidential information requiring a password (for example, your bank account), empty the cache of your phone after each use. To empty the cache, select **Services**; then select **Clear the cache**.



Note: The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.

- **SET UP FOR BROWSING**

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

- **SIGN ON TO THE INTERNET**

Use the **Services** menu to connect to the Internet, if you have a wireless internet service provider.

1 At the start screen, press **Menu 10 (Services)**.

2 Choose **Home**; then press **Select**.

Your phone asks if you accept charges and then connects to the Internet and to your service provider's home page.

- **Connecting** appears on the screen until the connection is complete.
- If **Check service settings** appears, 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.

Home	Starts the browser and takes you to your service provider's home page.
Bookmarks	Shows a list of all saved bookmarks
Settings	Provides options for changing connection settings, appearance settings, and security certificate.
Go to address	Accepts an address you enter.
Clear the cache	Empties the browser's temporary memory and frees up space. It's advisable to empty your cache at the end of each session.

- **SIGN OFF THE INTERNET**

Press **End** at any time or select **Exit**.

- **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**), press **Options**; then select **OK**.

The text you entered now appears between the brackets in the field.

- 3 Scroll to the link you want (for example, **Get forecast?**), press **Options**, and select **Open link**.

Choose browser options

While you are connected to the Internet, the phone's browser provides some of 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**.

Open link	Activates the link you selected.
Back	The previous screen appears.
Home	Takes you back to the service provider's home page.
Bookmarks	Shows a list of all saved bookmarks.
Add bookmark	Adds a web site address for quick reference.
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 the cache	Empties the browser's temporary memory.
Exit	Exits the current session and returns to the start screen.

• BOOKMARKS

You can save addresses for your favorite sites as bookmarks. A [bookmark](#) helps you find a site again, just as a slip of paper in a book helps you find a page.

- 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**.

ENTER A BOOKMARK MANUALLY

- 1 At the Services menu, press **Select**.
- 2 Scroll to **Bookmarks** and press **Select**.
- 3 Press **Options**.
- 4 Highlight **New bookmark** and press **Select**.
- 5 Enter the site's address (for example, **my.yahoo.com**) and press **OK**.
You do not need to enter the **http://** characters. They are added automatically.
- 6 Enter a name for the new bookmark and press **OK**.
Bookmark added confirms your choice.

RETURN TO A BOOKMARKED SITE

- 1 At the services menu, scroll to **Bookmarks** and press **Select**.
- 2 Scroll to the bookmark you want and press **Options**.
- 3 Scroll to **Go to** and press **Select**.
If you are not currently browsing, the phone will connect to the Internet.



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

19 Games

Not only can you use your phone for communication, but also for some serious fun. You can choose from any of the five games listed below.

AIR GLIDE

BOWLING

BACKGAMMON

SKY DIVER

RACKET

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 **Options**.
- 4 Select **Open**, 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.

Game settings

Go to game settings by pressing **Menu 8-4 (Games > Settings)**. Here you can customize a game by activating or deactivating game sounds, game lights and shakes.

Game downloads

The Nokia 3520 and Nokia 3560 phones have the capability to download Java games from the Internet. This is a network dependent feature. Please check with your service provider for details.

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

Games



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

Memory

Press **Menu 8-3** to view the amount of memory available. This memory is shared between Games, Gallery, and Applications.

20 FAQ (frequently asked questions)

This section lists and answers the questions phone users most frequently ask. Some of the answers tell you to use menu shortcuts. For a complete listing of these shortcuts, refer to "Shortcuts" on page 23.

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**; then the **Star** key. The term **Keyguard** is also used in connection with this feature.

Q. How do I unlock the keypad?

- A. Press **Unlock**; then the **Star** key. 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 (Profiles > Normal > Customize > Ringing volume)**, and then choose a volume level.

Q. How do I change the ringing tone?

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

FAQ (frequently asked questions)

Q. How do I store my voice mailbox number?

- A. Press **Menu 0-1-9-2 (Messages > Voice messages > Voice mailbox number)**. Enter your voice mailbox phone number, and press **OK**.
The screen tells you that the number is saved.
- This voice mailbox number is valid unless your phone number changes.
If your phone number changes, you will have to save a new voice mailbox number.

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

- A. When your phone alerts you to new voice messages, press **Listen** and follow the instructions on the phone. If you want to listen to your messages later, press **Exit**.
- To listen to your voice messages at a later time, perform one of the following actions:
- Press and hold **1**.
 - Press **Menu 0-1-9-1 (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 phone's model number is printed on the sticker beneath the battery, after the word *Model*.

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

- A. Press the **Talk** key twice, quickly.

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

- A. Press **Contacts** and scroll to **1-touch dialing**.
Press **Select**.
Use **Scroll up** or **Scroll down** to scroll to the first number that includes the message (empty) and press **Assign**.

Enter or retrieve the name/number you want to assign to this key and press **Select**.

Repeat these steps as many times as necessary.

Q. How do I find out the amount of memory I have used in my phone?

- A. Press **Contacts** and scroll to **Settings**.

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" on page 10, for more information. Your phone's ESN appears on the sticker beneath the battery, after the letters ESN.

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

- A. See "**Note:** The next two topics require that you use menus. You may wish to review the next two chapters to learn more about menus and then return here to adjust screen contrast and equalizer." on page 15.

Q. How do I clear my call timers?

- A. **WARNING:** The clearing of call timers cannot be undone.

Press **Menu 2-5-5 (Call log > Call timers > Clear timers)**. When the security code field appears, enter your security code and press **OK**.

21 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.
Ringling tone	The sound your phone makes when you receive a call. Ringing tones can be ringing sounds or short tunes.
Scroll bar	A bar that appears on the right side of the screen when you scroll through the main menus.
SMS	The quick way to say short message service.
Start screen	The "home base" for 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 during error conditions, during confirmations, when the battery is low, and when you need to recharge the battery.

22 Reference information

- **BATTERY STATEMENTS**

Charging and Discharging

Your phone is powered by a rechargeable battery.

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

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

Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer. Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused, a fully charged battery will discharge itself over time.

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

Use the battery only for its intended purpose.

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

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

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

Do not dispose of batteries in a fire!

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

• **USE PROPER CARE AND MAINTENANCE**

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

- Keep the phone and all its parts and enhancements out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside which may damage electronic circuit boards.
- Do not attempt to open the phone. Nonexempt handling may damage it.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate regulations governing radio devices.

Reference information

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

• **UNDERSTAND IMPORTANT SAFETY INFORMATION**

Traffic Safety

Do not use a handheld telephone while driving a vehicle. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

Remember road safety always comes first!

Operating environment

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

Use the phone only in its normal operating positions.

Electronic devices

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

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 6 – 8 inches (15 – 20 cm) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- Should always keep the phone more than 6 – 8 inches (15 – 20 cm) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket

- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

HEARING AIDS

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

Other medical devices

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (for example, electronic fuel injection systems, electronic untested/antilock braking systems, electronic speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

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

Potentially explosive atmospheres

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

Reference information

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

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

Vehicles

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

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

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

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

FCC regulations prohibit using your phone while in the air. Switch off your phone before boarding an aircraft. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal. Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, legal action, or both.

- **EMERGENCY CALLS**



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

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

To make an emergency call:

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

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

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

- **CERTIFICATION INFORMATION (SAR)**

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 1.24 W/kg (3560) and 1.26 W/kg (3520), and when worn on the body, as described in this user guide, is 0.75 W/kg (3560) and 0.70 W/kg (3520). (Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements).

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID GMLRH-14/GMLRH-21.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with an enhancement that contains no metal and that positions the handset a minimum of 7/8 inch (2.2 cm) from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn enhancement and are not holding the phone at the ear, position the handset a minimum of 7/8 inch (2.2 cm) from your body when the phone is switched on.

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

• ENHANCEMENTS

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

A few practical rules for enhancement operation:

- Keep all enhancements out of the reach of small children.
- When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Reference information

- Check regularly that any vehicle-installed enhancements are mounted and are operating properly.
- Installation of any complex car enhancements must be made by qualified personnel only.
- Use only batteries, chargers, and enhancements 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.

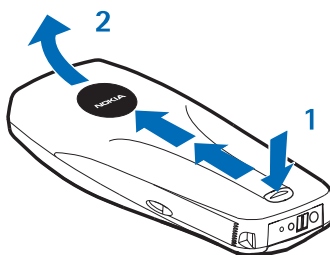
Xpress-on™ covers

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

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

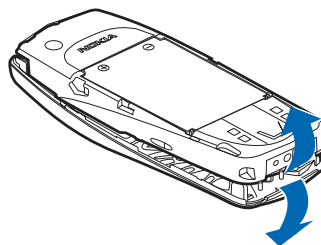
Remove the back cover

- 1 Remove the back cover by gripping the bottom with one thumb and pressing upward with the other thumb.
- 2 Slide the cover toward the top of the phone and remove it.



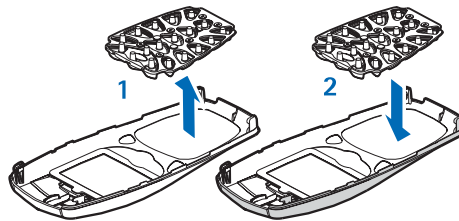
Remove the front cover

- 1 Hold the phone as shown here.
- 2 Gently pull the cover until it pops off the phone.



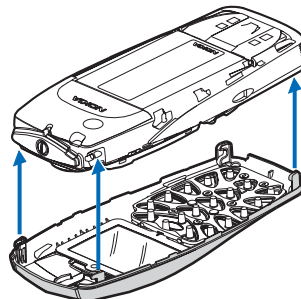
Remove the keypad

- 1 Lift the keypad from the back of the old cover.
- 2 Place the keypad into the back of the new cover.



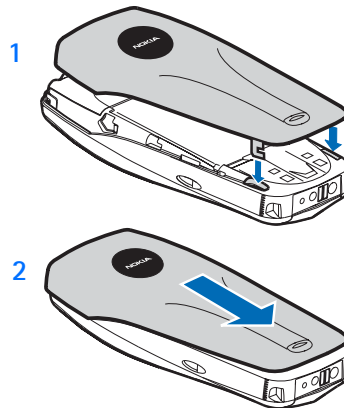
Replace the front cover

- 1 Align the top of the phone with the top of the front cover.
- 2 Push the phone toward the cover until it locks 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 toward the bottom of the phone until it locks into place.



• BATTERY

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



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

The tables shown in this section provide information about battery options that are available for your phone, charging times (with the ACP-7 and ACP-12 chargers), 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 charger.

Battery Option	ACP-7 Charger	ACP-12 Charger
BLC-2 Li-Ion 1000 mAh	3 h, 30 min	1 h, 30 min

Standby and talk times

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



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



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

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

Battery option	Digital talk time	Analog talk-time	Standby time	
			Digital	Analog
BLC-2 Li-Ion 1000 mAh	up to 6.5 hours	up to 2.5 hours	up to 9.5 days	up to 42 hours

• CHARGERS AND OTHER ENHANCEMENTS

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

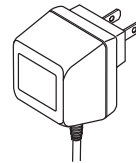
The chargers and enhancements that are described in this section are available for your phone. Contact your dealer for details.

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-7)

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.



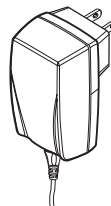
Reference information

Rapid Travel Charger (ACP-8)

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

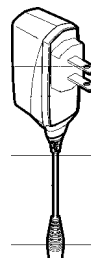
The charger can also be used together with the optional desktop charging stand. Approximate charging times for discharged batteries are shown in "Charging times" on page 141.



Travel Charger (ACP-12)

This charger is especially suitable for active travelers because it works with multiple voltages.

Plug it into a standard 120-Vac wall outlet, and connect the lead from the charger to the base of your phone.

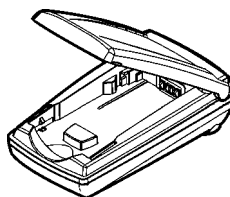


Spare Battery Charger (DDC-1)

This charger provides the possibility to charge a spare battery and thus have a full power source available whenever needed.

Compatible with BLC-1 and BLC-2.

Can be used with the Standard Travel Charger (ACP-7) and the Travel Charger (ACP-8).

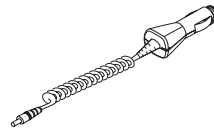


Mobile Charger (LCH-9, LCH-12)

You can charge your phone's battery from your vehicle battery by using the Mobile Charger.

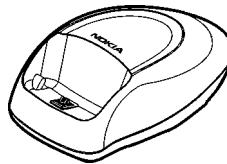
Calls are possible during charging. A green light indicates that the charger is ready for charging (when not charging) or finished charging (if it has been charging).

The input voltage range is 11–32 Vdc, negative grounding. Avoid prolonged charging with the Mobile Charger when the car engine is not running; this could cause your car battery to drain. Note also, that in some cars, the cigarette lighter plug is not provided with electricity if the ignition is not switched on.



Desktop Charging Stand (DCV-10)

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



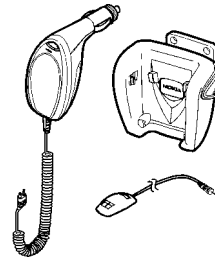
This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.

- 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

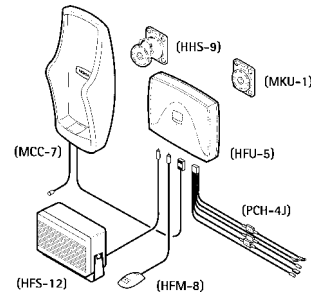
Express car kit (CARK-125)

This compact charger provides full handsfree use by simply plugging into a vehicle's cigarette lighter. The mobile holder holds the phone securely.



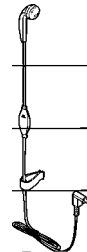
Complete car kit (CARK-134)

Full car kit providing charging, handsfree functionality and external antenna connectivity.



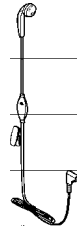
Headset (HDE-2)

The headset provides hands-free operation. It connects directly to the phone requiring no additional adapter and you can end a call by pressing the button located on the connecting cord, by the microphone.



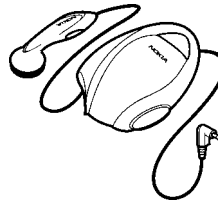
Headset (HDC-5)

Small and lightweight, the headset kit allows easy and convenient handsfree operation. The headset has a foam earpiece cover for a comfortable fit and has a clip to hold it firmly in place. This headset's 4-wire 2.5 mm jack fits directly into the bottom of the phone. A remote control button located in the microphone makes the headset convenient to use while answering or receiving calls. You can use the headset with your phone's voice tag feature.



Headset (HDC-10)

This headset features a retractable mechanism for cable management, a microphone and speaker integrated into the earpiece, a Talk/End button for call handling, and a hook for easy carrying.



Headset (HDB-5)

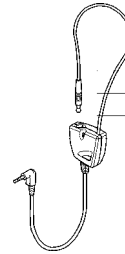
Small and lightweight, this headset's beautiful and distinctive Nokia design also provides functionality with a remote control Talk/End button.



Reference information

Loopset (LPS-3)

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



Carrying cases

Stylish carrying cases complimenting your Nokia mobile phone's design are available from your local dealers

• TROUBLESHOOTING

This section lists some of the most commonly encountered problems and provides possible solutions.

Problem	Possible cause	Possible solution
My phone is not 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 is not 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 not listen to my voice messages.	You do not 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 63.
	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	107 g (3.75 oz) with BLC-2 1000 mAh Li-Ion Battery
Size	hXwXd:118 X 50 X 23 mm
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 600 mW
Battery voltage (Nominal)	3 V
Operating temperature	–4°F to +104°F (–20°C to +40°C)
Number of channels	832 lowband 1997 highband
Phone numbers	5 per entry
Memory locations	Up to 250 contacts, with multiple phone numbers and text entries per contact.

23 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.

Nokia One-Year Limited Warranty

- 5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.
- 6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.
- 7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
 - a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.
 - b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.
 - c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.
 - d) The Product serial number plate or the enhancement data code has been removed, defaced or altered.
 - e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

- 8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:
- a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.
 - b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:
Nokia Inc., Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901
 - c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
 - d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.
 - e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.

Nokia One-Year Limited Warranty

- f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.
- 9 You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.
- 10 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

- 11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.
- 12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.
- 13 This is the entire warranty between Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
- 14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.
- 15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.
- 16 Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)
- 17 The limited warranty period for Nokia supplied attachments and enhancements is specifically defined within their own warranty cards and packaging.

Nokia is a registered trademark of Nokia Corporation

Nokia One-Year Limited Warranty

NOTES

Appendix A

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

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Phone: (202) 785-0081

Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

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

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

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

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

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

Wireless Phone "Safety Tips"

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

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

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 (U.S.

**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.

Appendix B Message from the FDA (U.S.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix B Message from the FDA (U.S.)

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

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

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

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

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

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

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

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the

government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

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

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

12. Where can I find additional information?

For additional information, please refer to the following resources:

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

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

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