NOKIA
8390

User Guide

NOKIA

CONNECTING PEOPLE

Nokia 8390 User Guide

Phone notes

	Notes	Where to get information
My number		Wireless service provider
Number to call for voice mail		Wireless service provider
Wireless provider's number		Wireless service provider
Provider's customer care		Wireless service provider
Model number	8390	
Phone type	NSB-8	Back of title page
Electronic serial number (IMEI)		Chapter 2 "Welcome", "Find information about your phone"
PIN code		Wireless service provider Chapter 13 "Manage phone security"

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

EXPORT CONTROLS
This product contains commodities, technology or software exported from the United States in accordance with the Export Administration regulations. Diversion contrary to U.S. law is prohibited.

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

TOPICS   Chapter

NOTES

Contents

1 For your safety

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

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

ROAD SAFETY COMES FIRST
Don't use a hand-held phone while driving.

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

SWITCH OFF IN HOSPITALS
Follow any regulations or rules. Switch the phone off near medical equipment.

SWITCH OFF IN AIRCRAFT
Wireless devices can cause interference in aircraft.

SWITCH OFF WHEN REFUELING
Don't use the phone at a refueling point. Don't use near fuel or chemicals.

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

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

QUALIFIED SERVICE
Only qualified personnel may install or repair phone equipment.

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

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

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.

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

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

2 Welcome

You'll find that your Nokia 8390 mobile phone has many useful features for everyday use, such as a calendar, to-do list, text messaging, and alarm clock. Before you get started, review this chapter to find out more about:

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

• GET THE MOST OUT OF THIS GUIDE

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

Notice text conventions

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

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

Follow graphic clues

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

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

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

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

Caution: Warns you when you may lose information.

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

Look for updates

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

http://www.nokiausa.com

Also, an interactive tutorial is available online at:

www.nokiahowto.com

• UNDERSTAND WIRELESS NETWORK SERVICES

A number of features included in this guide are called Network Services. These are special services that you arrange through your wireless service provider. Before you can take advantage of any of these Network Services, you must subscribe to them through your service provider and obtain instructions for their use from your service provider.

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

2

• LEARN ABOUT ACCESSIBILITY SOLUTIONS

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

www.nokiaaccessibility.com

Alternate format user guides

This user guide is available in alternate formats, including:

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

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

LPS–3 Mobile Inductive Loopset

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

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

The loopset is easy to use. You wear the loopset around your neck, connect it to your phone, and speak directly toward the microphone. For more information, see "Use the loopset setting" on page 76.
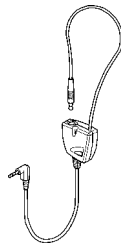
> **Note:** The loopset can be purchased separately as an accessory. For detailed instructions, refer to the booklet that comes with the LPS-3.

Accessible features

The 8390 has many accessible features, including:

Nibs above and below the ⬚ key for quick reference to the keypad
Tactile feedback when you press a key
Ability to send and receive short text messages
Convenience of 1-touch dialing
Ability to define ring tones for different caller groups
Voice dialing and voice commands for handsfree operation
Ability to compose own ring tones with PC Suite Software

• FIND INFORMATION ABOUT YOUR PHONE

If you ever need to call Nokia Customer Care or your service provider, you will need to provide specific information about your phone. This information is provided on the phone's label. The label is on the back of the phone (under the battery). It shows the following:

Model number
Phone type (a technical designation)
International Mobile Equipment Identification (IMEI)

Do not remove or deface the label.

• CONTACT NOKIA

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

Have the right information available

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

- The phone's model number (8390)

- Phone type (a technical designation)

- The IMEI (serial number)

- Your ZIP code

Have the phone or accessory handy

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

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

3   Before you begin

Before you begin, you need to prepare your phone for use by installing the SIM card, charging the battery and attaching the headset.

• INSTALL THE SIM CARD

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

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

2 Slide the cover off.

3 Lift out the battery.
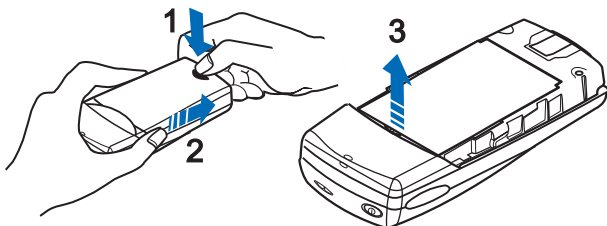
4 Grasp the front of the SIM card door.

5 Push the SIM card door *gently* towards the gold contacts.

6 Lift the SIM card door.
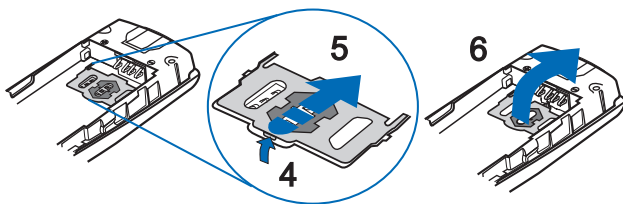
7 Install the SIM card:
beveled corner on the right,
gold contact area face down.

8 Lower SIM card door and gently slide to lock into place.
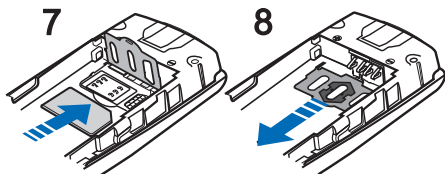
Notes about SIM cards

• Keep all miniature SIM cards out of the reach of small children.

• The SIM card and its contacts are easily damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

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

• INSTALL THE BATTERY

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

2 Slide the battery into place.

3 Replace the back cover.
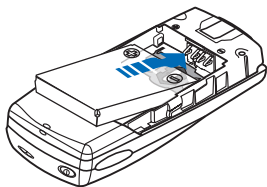
• CHARGE THE BATTERY

1   Connect the lead from the charger to the bottom of the phone.
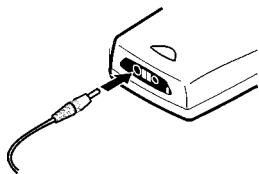
2   Connect the charger to a standard wall outlet. The battery power indicator (or battery bar) appears on the screen and starts scrolling. If the phone is on, **Charging** appears also.
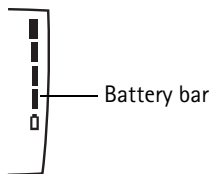
Battery bar

3   When the battery bar stops scrolling, the battery charge is complete. **Battery full** appears also, if the phone is on.

4   Disconnect the charger from the phone and wall outlet.

• BATTERY NOTES

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

- Recharge your battery only with a charger approved by Nokia.

- With your phone turned off, charge your new battery for three hours before its first use. Use the battery until it is fully discharged. Repeat this procedure twice for a total of three charging cycles.

- Battery operation time may be less then the estimated times during the first charges. This condition is normal.

- When the battery is fully discharged, the scrolling bars may not appear immediately.

- After the first charge, you can make and receive calls during the charging cycle, but the calls interrupt the charge. When the phone call ends, the charge will resume.

- The bars on the screen stop scrolling and remain constant when the phone is charged. If you leave the phone connected to the charger, the battery receives an additional charge.

- If the battery is completely empty, it may take a few minutes before you can make or receive calls.

- The charging time depends on the charger and battery that you use.

- The battery will take a "trickle charge" for an additional two hours. For more details, see "Battery information" on page 143.

• REMOVE THE BATTERY

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

Important: Switch off the phone before removing the battery. To protect the SIM card memory, wait until the phone lights are off before removing the battery.

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

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

2 Slide the cover off.

3 Lift out the battery.
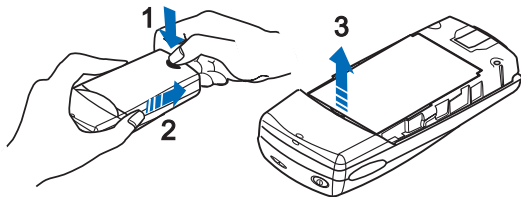
• SET UP YOUR HEADSET

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

Connect the headset

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

2 Put the round ear plug into 1 ear.

Charger
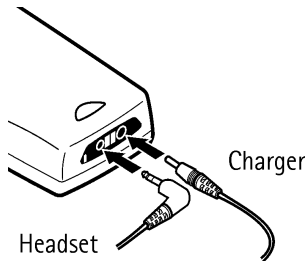
Headset

Use the headset

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

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

For more information about the headset, see "Headset Kit (HDC-5)" on page 146.

4   About your phone

• KEYS AND FEATURES

Front

1   Power key
2   Earpiece
3   Screen
4   Selection keys
    and
    scroll keys
5   Talk key
6   End key
7   Number keys
8   Microphone
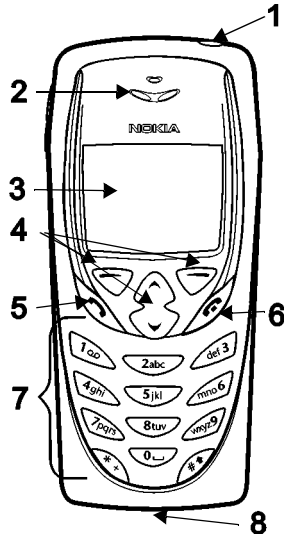
4

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

Bottom
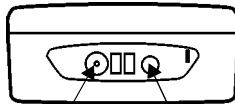
Charger connection   Headset/car kit/loopset connection

Left side and right side

Earpiece volume
buttons

InfraRed
(IR) port

4

Back

Back cover
release

Antenna
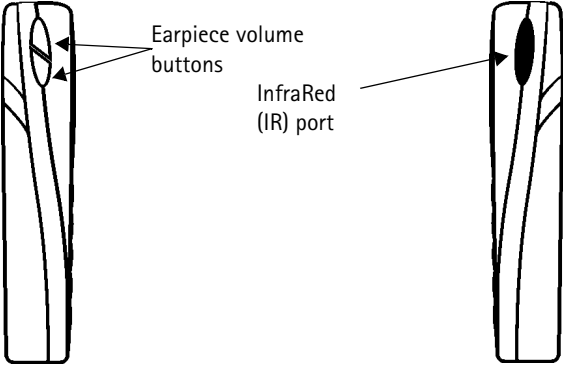
• SWITCH ON YOUR PHONE

- Press and hold the power key for a few seconds.

  The phone may ask for a Personal Identity Number (PIN) or a security code. See "About security codes" on page 87 for more information.
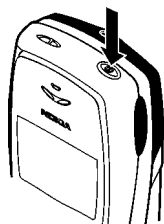
4

Note: Your service provider supplies the PIN code.

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

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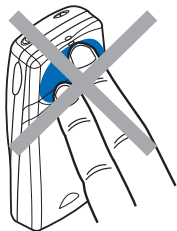
Your phone has a built-in antenna. As with any other radio transmitting device, do *not* touch the antenna unnecessarily when the phone is switched on.

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

Not touching the antenna during a call optimizes the antenna performance and the talk-time of your phone. Normal position: Hold the phone as you would any other telephone.
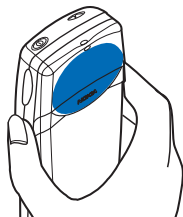
• ABOUT THE START SCREEN

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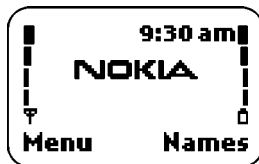
• ABOUT INDICATORS AND ICONS

On your phone, you have 2 types of identifiers: indicators and icons.

Indicators

Indicators show the status of something. The phone uses 3 types of
indicators:

- Signal strength indicator: Shows the strength of the signal to
  your phone.

- Battery strength indicator: Shows
  how much power is left in your
  phone's battery.

- Volume indicator: Shows the
  earpiece volume level. Adjust the
  volume level with the earpiece
  volume buttons on the left side of
  the phone (see "Adjust the earpiece volume during a call" on page 20).
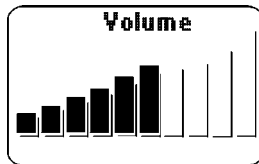
Icons

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

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

Icon	What it means
▢▪	The phone book entry is stored to the SIM card.
◲	The Countdown timer is running in the background.
⎔	The Stopwatch is running in the background.
▭	You have a new fax message.

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5   Make and answer calls

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

• MAKE A CALL

Check the signal strength

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

Use the keypad

1   Enter the area code and phone number.

2   Press ✎.

Hold the phone as you would any other telephone, with the antenna pointed up and over your shoulder.
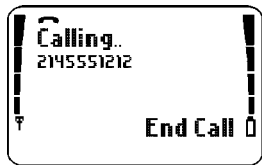
⚠ **Warning:** Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

Use the phone book

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

2   Press ✎ to make the call.

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

Adjust the earpiece volume during a call

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

- To decrease the volume, press the bottom volume key.

If an accessory with its own loudspeaker is connected to your phone, the volume keys adjust the volume for that accessory.
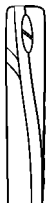
• END A CALL
Press 📞.

• ANSWER A CALL
When someone calls you, the phone alerts you and **Calling** flashes on the screen.

To answer, press 📞 OR

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

Caller ID
This is a network service that helps identify incoming calls. Contact your service provider for details.

When Caller ID is active, your phone may show the caller's phone number. The caller's name may also appear, if their name and number are stored in the phone book (see "Use the phone book" on page 39).

• REJECT A CALL
Press 📞 OR

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

• SILENCE AN INCOMING CALL
You can stop the ring for an incoming call by pressing **Silence**. Then, answer or reject the call.

• REDIAL THE LAST-DIALED NUMBER

Press ↰ twice.

Dial any of the 20 last-dialed numbers

1 Press ↱ .

2 Scroll to the number you want to redial.

3 Press ↰ again.

5

6   The menu

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

• USE THE MENUS

Selection keys

Below the screen, you will find 2 selection keys. Their functions depend on the text above the keys.

For example, in this screen, the word **Menu** appears above the selection key. Press the key to enter your phone's menus. Similarly, press the key under **Names** to access phone book functions.
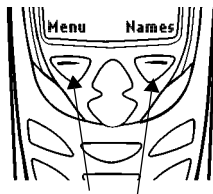
Selection keys

Scroll keys
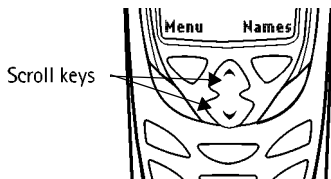
Scroll keys

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

Scroll bar

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

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

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Help text

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

• ABOUT MENU SHORTCUTS

When you scroll to a menu item, the menu number appears on the screen above the scroll bar. If you remember some of these menu numbers, you can use them to access different features quickly instead of scrolling through the menu.
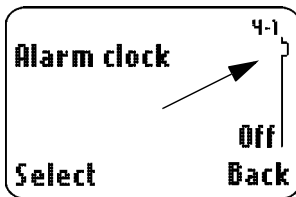
• To use a shortcut, press **Menu**, then the menu number.

• LIST OF MENU SHORTCUTS

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

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

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

6

1   Messages

- 1   Write message
- 2   Inbox

Note: If you do not have the chat feature, all options after 1-3 will be 1 level higher on the menu structure.

- 3   Chat
- 4   Outbox
- 5   Archive
- 6   Templates
- 7   My folders
- 8   Erase messages
- 9   Voice messages
    - 1   Listen to voice messages
    - 2   Voice mailbox number
- 10   Info messages
    - 1   Info service
    - 2   Topics
    - 3   Language
    - 4   Info topics saved on SIM card
    - 5   Read
- 11   Service command editor

12 Message settings
   1 Default profile (other sets may appear)
      1 Message center number
      2 Messages sent as
      3 Message validity
      4 Default recipient number
      5 Delivery reports
      6 Use GPRS
      7 Reply via same center
      8 Rename sending profile (depends on SIM card configuration)

6

2 Call log 〈⟶◎

1 Missed calls
2 Received calls
3 Dialed numbers
4 Clear call lists
   1 All
   2 Missed
   3 Received
   4 Dialed
5 Call timers
   1 Duration of last call
   2 Duration of dialed calls
   3 Duration of received calls
   4 Duration of all calls
   5 Clear timers
6 Call costs
   1 Last call units
   2 All calls units
   3 Call cost settings
7 GPRS data counter
   1 Data sent in last session
   2 Data received in last session
   3 All sent data
   4 All received data
   5 Clear counters

8 GPRS connection timer
    1 Duration of last session
    2 Duration of all sessions
    3 Clear timers

---

3 Profiles

1 Normal
    1 Select
    2 Customize
        1 Ringing options
        2 Ringing tone
        3 Ringing volume
        4 Vibrating alert
        5 Message alert tone
        6 Keypad tones
        7 Warning tones
        8 Alert for
        9 Profile name (appears only for Silent, Meeting, Outdoor or Pager)
    3 Timed
2 Silent
3 Meeting
4 Outdoor
5 Pager

---

4 Settings

1 Alarm clock
2 Time settings
    1 Clock
    2 Auto update of date and time

3   Call settings
   1   Forwarding
      1   Forward all voice calls
      2   Forward if busy
      3   Forward if not answered
      4   Forward when phone off or no coverage
      5   Forward when not able to take calls
      6   Forward all fax calls
      7   Forward all data calls
      8   Cancel all call forwarding
   2   Anykey answer
   3   Automatic redial
   4   1-touch dialing
   5   Call waiting
   6   Summary after call
   7   Send own caller ID
   8   Line for outgoing calls
4   Phone settings
   1   Language
   2   Cell info display
   3   System selection
   4   Help text activation
   5   Start-up tone
5   Tone settings
   1   Ringing options
   2   Ringing tone
   3   Ringing volume
   4   Vibrating alert
   5   Message alert tone
   6   Keypad tones
   7   Warning tones
   8   Alert for

6

6   Accessory settings
    1   Headset
        1   Default profile
        2   Automatic answer
    2   Handsfree
        1   Default profile
        2   Automatic answer
        3   Lights
    3   Loopset
        1   Use loopset
        2   Default profile
        3   Automatic answer
7   GPRS modem settings
    1   Active access point
    2   Edit active access point
        1   Alias for access point
        2   GPRS access point
8   Security settings
    1   PIN code request
    2   Call restrictions
        1   Outgoing calls
        2   International calls
        3   International calls except to home country
        4   Incoming calls
        5   Incoming calls if roaming
        6   Cancel all call restrictions
    3   Fixed dialing
    4   Closed user group
    5   Security level
    6   Change access codes
        1   Change security code
        2   Change PIN code
        3   Change PIN2 code
        4   Change restriction password
9   Restore factory settings

6

5 Games

1 Select game
   1 Snowboarding
   2 Snake II
   3 Bumper
   4 Pairs II
2 Settings
   1 Game sounds
   2 Game lights
   3 Shakes

6

6 Calculator

7 To-do list

8 Calendar

9 Infrared

10 Extras

1 Voice recorder
2 Voice commands
3 Countdown timer
4 Stopwatch

11 Services

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

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

GSM data **or**	**GPRS**
Dial up number	GPRS connection
IP address	GPRS access point
Authentication type	IP address
Data call type	Authentication type
Data call speed	Login type
Login type	User name
User name	Password
Password	

   3   Appearance settings
     1   Text wrapping
     2   Show images
   4   Cookie settings
     1   Cookies
   5   Authority certificates
   6   Service inbox settings
5   Go to address
6   Clear the cache

12 SIM services

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

• PHONE BOOK MENU

1 For access to the phone book and its menus, press 📞 to return to the **Start** screen.

6

2 Press **Names**.

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

Find

Add entry

Edit name

Erase

Copy

Add number

Settings

    Memory in use

    Phone book view

    Memory status

1-touch dialing

Voice tags

Info numbers (depends on SIM card configuration)

Service nos.

Own numbers

Caller groups

7 Enter letters and numbers

You can enter letters and numbers into your phone for a person's name and phone number, writing a text message, and so on. There are 2 ways to do this:

- ABC mode, for making entries in the phone book, entering calendar notes, and renaming caller groups.

- Predictive text input, for writing text messages, adding notes to a picture message, adding notes to the to-do list, and entering a web address using WAP services.

• ABC MODE

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

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

Add letters

1 Find the key that has the letter you want to enter.

2 Press the key as many times as needed for the letter to appear on the screen.

For example, to enter the name Zach:

Press				**Z**
Press				**A**
Press				**C**
Press				**H**
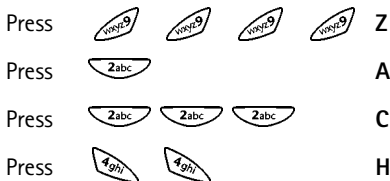
3 Press **OK**.
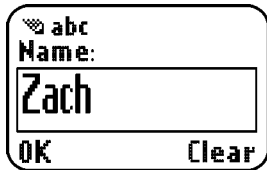
Depending on the selected display language, the following characters may be available.

Key	Characters	Key	Characters
1	. ¦ ? ! @ " 1 - ( ) / : _	7	PQRS7
2	ABC2	8	TUV8
3	DEF3	9	WXYZ9
4	GHI4	0	space, 0
5	JKL5	*	(See page 34 for details.)
6	MNO6	#	Changes letter case

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

Enter spaces and punctuation

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

Erase mistakes

If you make a mistake:

- Press **Clear** to erase that character.
- Press **Clear** as needed to erase more than 1 character, or press and hold **Clear** to erase the entire field of characters.

Change letter case

To switch between uppercase and lowercase letters, press ⌷ .

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

Enter numbers

To enter numbers, you can:

- Press and hold ✑ to switch to 123 mode. Press the appropriate number key to enter a number.

OR

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

- If you make a mistake, press **Clear** to erase the number.

- To switch back to the ABC mode, press and hold ✑ again.

Use special characters

IN ABC MODE

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

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

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

IN 123 MODE

You can access the following special characters only in 123 mode. There are 2 places you can use these characters:

- At the **Start** screen, when you dial a phone number

- At the number prompt, when you add a new entry to the phone book

Press ✎ to enter ✱

Press ✎ ✎ to enter **+**

Press ✎ ✎ ✎ to enter **p**

Press ✎ ✎ ✎ ✎ to enter **w**

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

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

p   Use this character to create a pause that occurs when dialing a number. Numbers entered to the right of this special character are automatically sent as touch tones after a 2.5-second pause.

w   This character creates a wait; digits to the right of the **w** are not sent until you press **Send**.

• PREDICTIVE TEXT INPUT

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

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

$\overset{\text{mno}6}{\boxed{\quad}}$ (for **N**) $\overset{\text{mno}6}{\boxed{\quad}}$ (for **o**) $\overset{5_{jkl}}{\boxed{\quad}}$ (for **k**) $\overset{4_{ghi}}{\boxed{\quad}}$ (for **i**) $\overset{2_{abc}}{\boxed{\quad}}$ (for **a**)

abc	abc	abc	abc	abc
O,	**On,**	**Onl,**	**Onli,**	**Nokia,**
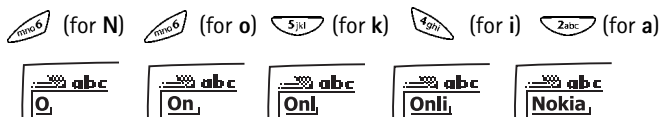
The display shows the above words for each key pressed.

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

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

Select a language and turn on predictive text

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

2   Scroll to **Write messages**, then press **Select**.

3   Press **Options**, scroll to **Predictive text**, then press **Select**.

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

Turn off predictive text

- To switch from predictive text input to ABC mode, repeat steps 1 – 3 above, then select **Prediction off**. OR

- While writing the message, quickly press ✎ twice to switch between predictive text input and ABC mode.

💡 **Tip:** Your key presses must be quick! Press ✎ 2 times in about 1.5 seconds.

Write words using predictive text

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

- If the displayed word is correct, press ▭ to accept the word and add a space.

- If the displayed word is not correct, press ✎ to see the other possible matches.

- If the word you are trying to write is not in the dictionary, a question mark appears.

- To see how many characters you have left for your message, refer to the counter in the upper right corner of the screen.

- Refer to "Use predictive text shortcuts" on page 37 for more details.
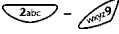
Add a new word to the dictionary

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

1 Press ✎ repeatedly until **Spell** appears in place of **Options**.

2 Press **Spell**, then enter the word(s) using ABC mode.

3 Press **Save** to add the word to the dictionary.

Use predictive text shortcuts

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

⟨2abc⟩ – ⟨wxyz9⟩	Use letter keys for word entry. Press each key only once for each letter.
⟨✳⟩	Press to view the next matching word if the underlined word is not the word you intended.
Spell	Press to add a new word to the dictionary.
⟨0⟩	Press once to accept a word and add a space.
⟨#⟩	Press and hold to enter a number.
⟨#⟩	Press to change the character case. **⟶ABC** indicates uppercase. **⟶abc** indicates lowercase.
⟨#⟩	Press twice to select predictive input or ABC mode. **ABC** and **abc** indicate ABC mode. **⟶Abc** , and **⟶abc** indicate predictive text input.
Clear	Press once to delete the character to the left of the cursor.
⟨1⟩	Press once to add a punctuation mark. To change the underlined symbol, press ⟨✳⟩ repeatedly until the desired symbol appears.
160	The maximum number of characters available appears in the top right corner of the screen and counts down for each character added.

Insert symbols

1 Press and hold ✎ until the symbol screen appears.

OR

Press **Options** and scroll to **Insert symbol**.

2 Scroll to the desired symbol and press **Insert**.

Insert numbers

1 To add a number to the message, press and hold ✎ .

2 Key in the desired numbers, then press and hold ✎ to return to ABC mode.

Write compound words

1 Write the first part of the word and press ⌄ to accept it.

2 Write the last part of the compound word and press ⬭ to enter the word in memory.

8   Use the phone book

Use the phone book to store names, e-mail addresses and phone numbers.

- A phone book entry can consist of a number only, a name and number, or a name only.

- Names are saved in the phone book memory and/or SIM memory. If you try to save a name that already exists, the phone asks if you want to replace the existing name.

• SAVE NAMES, NUMBERS, AND E-MAIL ADDRESSES

Save a name, number, and e-mail address

1   Enter a phone number and press **Options**.

> **Note:** For international dialing, see page 62.

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

3   Enter a name, then press **OK**.

4   Press **Options**.

5   Scroll to **Add detail** and press **Select**.

6   Scroll to **E-mail** and press **Select**.

7   Enter the e-mail address, then press **OK**.
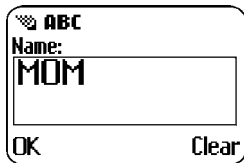
> **Note:** All phone book entries that contain e-mail addresses are automatically saved in phone memory. E-mail addresses cannot be saved in SIM memory.

Save a number only

1   Enter the phone number.

2   Press and hold **Options**.

The number is saved in your phone book. You can add a name or e-mail address to it later.

Save a name and number while in a call

1 Press **Options**.

2 Scroll to **Phone book**, then press **Select**.

3 Scroll to **Add entry**, then press **Select**.

4 Enter the name, then press **OK**.

5 Enter the phone number, then press **OK**.

Save an E-mail address

1 Press **Names**.

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

   The **Name** box appears.

3 Enter the name you want to add an e-mail address to and press **Find**.

   OR

   Press ⌃ or ⌄ to scroll through the name list until you find the name.

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

5 Scroll to **Add detail**, then press **Select**.

6 Scroll to **E-mail** and press **Select**.

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

   A confirmation message appears.

If your phone book is full

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

• FIND NAMES IN THE PHONE BOOK

At the Start screen

- Press ⌃ or ⌄.

  OR

- Press **Names**.

  Find appears highlighted.

- Press the number key(s) that match(es) the first letter(s) of the name.

While in a call

1 Press **Options**.

2 Scroll to **Phone book** and press **Select**.

  Find is highlighted.

3 Press the number key(s) that match(es) the first letter(s) of the name.

  OR

4 Press **Select**.

5 When the box appears, enter the name and press **Find**. You can enter just the first few letters of the name, then press **Find**. Your phone will show the closest matching name.

• EDIT NAMES

1 At the Start screen, recall the stored name, press **Details**, then press **Options**.

2 Scroll to **Edit name**, then press **Select**.

3 Edit the name, then press **OK**.

• EDIT NUMBERS

1   At the Start screen, recall the stored name, press **Details**, then press **Options**.

2   Scroll to **Edit number**, then press **Select**.

3   Edit the number, then press **OK**.

• ERASE NAMES AND NUMBERS

Erase a stored number

At the Start screen:

1   Recall a stored name.

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

3   Highlight **Erase number**, then press **Select**, then **OK**.

You can then add a different phone number for the name or you can erase the name.

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

Erase your entire phone book

> **Caution:** This feature erases your entire phone book and can't be undone!

1   Press **Names**.

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

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

4   Scroll to the memory (Phone or SIM card) you want to erase, then press **Erase**.

5   When you see **Are you sure?**, press **OK**.

6   When the **Security code:** prompt appears, enter your security code and press **OK**.

• ABOUT PHONE BOOK MEMORY

Your phone has 2 types of memory: internal memory and SIM card memory. You can save names and numbers in either memory. The internal phone memory can store up to 500 names and numbers. The amount of names and numbers you can store in SIM card memory is dependent on SIM card capacity. Please check with your SIM card provider or carrier.

Switch between internal memory and SIM memory

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

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

3   Scroll to **Memory in use**, then press **Select**.

4   Scroll to **SIM card**, **Phone** or **Phone and SIM** then press **Select**.

8

9   Check call history

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

- Missed calls.

- Numbers from which you've received calls.

- Numbers you've dialed.

- The amount of time you've spent on calls.

```
┌─────────────────────────┐
│                      2  │
│  Call log            3  │
│                         │
│   ⟵──▶⌦                │
│ Select         Exit     │
└─────────────────────────┘
```

- The amount of data sent and received over GPRS.

- The amount of time you've spent online for data transfers over GPRS
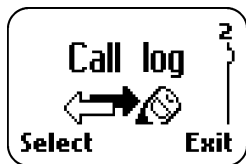
> **Note:** The actual invoice for calls and services from your service provider may vary, depending upon network features, rounding-off for billing, taxes, and so forth.

• CHECK DIALED CALLS

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

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

2 Scroll to the number you want to see.

3 To dial the number, press ✆ ; for other options, press **Options** (see "Choose options in call lists" on page 46).

• CHECK RECEIVED CALLS

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

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

2 Scroll to the number you want to see.

3 To dial the number, press ✆ ; for other options, press **Options** (see "Choose options in call lists" on page 46).

• CHECK FOR MISSED CALLS

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

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

After missing a call

1   Press **List**.

    If you have missed more than 1 call, you can scroll through the list of numbers.

2   To dial the displayed number, press ↘.

3   For other options, press **Options**.

4   To exit, press **Exit**.

At any time

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

2   Scroll to the number you want to see.

3   To dial the number, press ↘.

4   For other options, press **Options**.

• CHOOSE OPTIONS IN CALL LISTS

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

Choice	What it does
Call time	Shows the date and time of the last call. Use the scroll keys to view up to 5 recent call dates/time for the displayed phone number.
Send message	Allows you to write a short text message to the person who called you.
View number	Displays the phone number if the caller's name is stored in the phone book.
Edit number	Allows you to edit the displayed number and save it with a name to your phone book.
Save	Allows you to enter a name for the number and save both to your phone book.
Add to name	Allows you to save a number to an existing name in the phone book. Not available when viewing only numbers saved to SIM card.
Erase	Allows you to delete the number from the call list.
Call	Allows you to call the number.

• CLEAR CALL LISTS

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

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

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

2 Scroll to **All**, **Missed**, **Received**, or **Dialed**, then press **Select**.

• USE CALL TIMERS

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

If you have 2 phone lines

If you subscribe to a second phone line (see "Work with 2 phone lines" on page 65), call timers are separate for each phone line. When you view call timers, the call timers that are shown are for the currently selected outgoing line. However, if you view call timers while you are in a call, the call timers that are shown are for the line you are using at that moment.

View the call duration

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

2 Scroll to **Duration of last call**, **Duration of dialed calls, Duration of received calls**, or **Duration of all calls**.

Clear call timers

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

2 Scroll to **Clear timers**, then press **Select**.

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

Show call timer after call

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

TURN ON SUMMARY AFTER CALL

1   Press **Menu** 4 3 6 (**Settings** > **Call settings** > **Summary after call**).

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

3   After you end a call, the total time for that call appears briefly on the screen.

TURN OFF SUMMARY AFTER CALL

1   Press **Menu** 4 3 6 (**Settings** > **Call settings** > **Summary after call**).

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

• MANAGE CALL COSTS

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

View call costs

1   Press **Menu** 2 6 (**Call log** > **Call costs**).

2   Scroll to **Last call units** (cost of last call, or current call if applicable) or **All calls units** (cost of all calls since counters were last reset).

Clear call cost counters

1   Press **Menu** 2 6 3 (**Call log** > **Call costs** > **Call cost settings**).

2   Scroll to **Clear counters**, then press **Select**.

3   Enter your PIN2 code, then press **OK**. See "About security codes" on page 87.

Show costs in units or currency

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

- You need a PIN2 code for this feature. For more information, see "About security codes" on page 87.

- If you choose charging units, contact your wireless service provider for information about the cost of a charging unit.

- This feature appears only if supported by your service provider and SIM card.

1   Press **Menu** 2 6 3 (**Call log** > **Call costs** > **Call cost settings**).

2   Scroll to **Show costs**, then press **Select**.

3   Enter your PIN2 code, then press **OK**.

4   Scroll to **Currency** or **Units**, then press **Select**.

5   If you select **Currency**:

    Your phone prompts you to enter a home unit price and a currency name.

    If you select **Units**:

    - A confirmation note appears.
    - If you chose units, call costs and call cost limits are measured in charging units as agreed to by your service provider.

9

Limit your call costs

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

SET A LIMIT

1   Press **Menu** 2 6 3 (**Call log** > **Call costs** > **Call cost settings**).

2   Scroll to **Call cost limit** and press **Select**.

3   Enter your PIN2 code (see "About security codes" on page 87), then press **OK**.

4   Scroll to **Set**, then press **OK**.

5   Enter the number of charging units or currency, then press **OK**.

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

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

REMOVE A LIMIT

1 Follow steps 1 and 2 above.

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

• CHECK DATA CALLS

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

Check the data counter

Note: All data counters are displayed in bytes.

1 Press **Menu** 2 7 (**Call log** > **GPRS data counter**).

2 Scroll to the information you are interested in viewing. Your options include the following:

• Data sent in last session

• Data received in last session

• All sent data

• All received data

Clear the data counter

1 Press **Menu** 2 7 (**Call log** > **GPRS data counter**).

2 Scroll to **Clear counters**, then press **Select**.

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

Check the connection timer

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

1   Press **Menu** 2 8 (**Call log** > **GPRS connection timer**).

2   Scroll to the information you are interested in viewing.

Your options include the following:

• Duration of last session

• Duration of all sessions

Clear the connection timer

1   Press **Menu** 2 8 (**Call log** > **GPRS connection timer**).

2   Scroll to **Clear timers** and press **Select**.

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

9

10 Advanced calling features

• ACTIVE CALL OPTIONS

Use call waiting

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

ACTIVATE/CANCEL CALL WAITING

1 Press **Menu** 4 3 5 (**Settings** > **Call settings** > **Call waiting**).

2 Scroll to **Activate** or **Cancel**.

3 Press **Select**.

CONFIRM CALL WAITING STATUS

1 Press **Menu** 4 3 5 (**Settings** > **Call settings** > **Call waiting**).

2 Scroll to **Check status** and press **Select**.

ANSWER A WAITING CALL

1 Your phone signals when you have a call waiting.

2 Press 📞 to put the current call on hold and answer the waiting call.

  OR

  Press **Answer**.

REJECT A WAITING CALL

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

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

2 Press **Select**.

SWITCH BETWEEN CALLS

Press 📞 or **Swap**.

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

END THE ACTIVE CALL

Press 📞 .

The held call becomes active.

OR

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

2 Press **Select**.

THIRD CALL WAITING

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

END THE ACTIVE CALL AND HELD CALL TO ANSWER THE WAITING CALL

1 Press **Options**.

2 Scroll to **End all calls**.

3 Press **Select**.

4 Press 📞 to answer the third call.

Use in-call options

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

Choice	What it does
Record	Allows you to record the active call. For more information, see "Record a phone conversation" on page 66.
End call	Ends current call.
New call	Makes a call when you have a call in progress.
Touch tones	Sends touch tones.
Phone book	Switches you to the phone book.
Menu	Switches you to the menu.
Mute	Mutes a call.
Hold	Holds or releases a call.

Put a call on hold

1   To put a call on hold, press **Hold**.

2   To return to the call, press **Unhold**.

Make a new call

1   Enter the second phone number, or recall it from the phone book.

2   Press ➘.

    OR

1   Press **Options**.

2   Scroll to **New call**, then press **Select**.

3   Enter the second phone number, or recall it from the phone book.

4   Press **Call**.

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

SWITCH BETWEEN 2 CALLS IN PROGRESS
Press ➘ or **Swap**.

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

END THE ACTIVE CALL
Press ✆.

The held call becomes the active call.

Send touch tones

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

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

SAVE TOUCH TONE STRINGS

Store touch tone strings the same way you save phone numbers (see "Save names, numbers, and e-mail addresses" on page 39).

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

SEND A TOUCH TONE STRING

1   Press **Options**.

2   Scroll to **Touch tones** and press **Select**.

3   Enter a touch tone string or recall a touch tone string from the phone book and press **OK**.

End all calls

1   Press **Options**.

2   Scroll to **End all calls**, then press **Select**.

10

Access the phone book

You can access the phone book while in a call.

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

1   Press **Options**.

2   Scroll to **Phone book** and press **Select**. Now your phone book functions are available. See "Use the phone book" on page 39.

Access menus

Scroll to **Menu** and press **Select** to access any of your phone's menus.

Mute/unmute the microphone

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

1   Press **Options**.

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

3 To unmute the microphone, press **Unmute**.

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

Make a conference call

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

1 Place a call to the first person.

2 Press **Options** and scroll to **New call**.

3 Press **Select**, recall or dial the number of the next party you want to include, then press **Call**.

4 After the other party answers, press **Options**.

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

6 To add other parties to the call, repeat steps 2 - 5.

7 To end the conference call, press 📞.

HAVE A PRIVATE CONVERSATION WITH A PARTICIPANT

1 While in a conference call, press **Options**.

2 Scroll to **Private call**, then press **Select**.

A list of the participants appears as **Call 1**, **Call 2**, etc.

3 Scroll to the person you want to speak with, then press **OK**.

The other participants can continue talking with each other.

4 To rejoin the conference call, press **Options**.

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

DROP A PARTICIPANT FROM THE CONFERENCE CALL

1 While in a conference call, press **Options**.

2 Scroll to **Private call**, then press **Select**.

A list of the participants appears as **Call 1**, **Call 2**, etc.

3 Scroll to the person you want to drop, then press **OK**.

The other participants can continue talking with each other.

4 Press **Options**.

5 Scroll to **End call**, then press **Select**.

Transfer a call

When you have 1 active and 1 held call, you can connect the 2 calls and disconnect yourself from the call.

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

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

• USE CALL FORWARDING

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

10

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

The following icons appear on your phone's screen:

➡ Incoming voice calls are being forwarded to another number.

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

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

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

Activate call forwarding

> **Note:** You can forward calls to your voice mailbox or to another phone number. For instructions on setting up your voice mailbox, see "Save the voice mailbox number" on page 65.

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

Scroll to one of the following options:

```
Forwarding    4-3-1


Select        Back
```

- Forward all voice calls

- Forward if busy

- Forward if not answered

- Forward when phone off or no coverage

- Forward when not able to take calls

- Forward all fax calls

- Forward all data calls

- Cancel all call forwarding
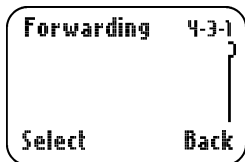
2 Press **Select**.

3 **Activate** is highlighted; press **Select**.

4 Select **To voice mailb.**

OR

Select **To other no**.

5 If you choose **To other no.**, enter the phone number to which you want to forward calls, then press **OK**.

You can press **Number** to see if you entered the phone number correctly.

Cancel all call forwarding

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

2 Scroll to **Cancel all call forwarding** and press **Select**.

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

Cancel a call forwarding option

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

2 Press **Select**.

3 Scroll to the call forwarding option you want to cancel, then press **Select**.

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

Check call forwarding status

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

2 Scroll to the call forwarding option you want to check, press **Select**.

3 Scroll to **Check status**, then press **Select**.

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

10

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

• USE ANYKEY ANSWER

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

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

Turn on Anykey answer

1 Press **Menu** 4 3 2 (**Settings** > **Call settings** > **Anykey answer**).

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

Turn off Anykey answer

1 Press **Menu** 4 3 2 (**Settings** > **Call settings** > **Anykey answer**).

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

```
                          4-3-2
 Anykey answer


                            Off
 Select              Back
```
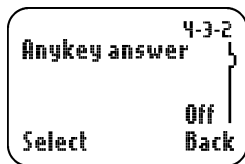
• USE AUTOMATIC REDIAL

This feature redials the number you're trying to call up to 10 times.

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

Activate automatic redial

1 Press **Menu** 4 3 3 (**Settings** > **Call settings** > **Automatic redial**).

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

3 Press and hold **Back** to return to the Start screen.

If the number you dial is busy, your phone immediately redials the number. If it is still busy, your phone will redial the number up to 9 more times.

• SEND YOUR OWN NUMBER IN CALLER ID

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

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

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

1 Press **Menu** 4 3 7 (**Settings** > **Call settings** > **Send own caller ID**).

2 Chose one of the following options:

- **Default**: your phone number is sent according to the network.

- **Yes**: your phone number is sent to the other person's caller ID.

- **No**: your phone number is not sent to the other person's caller ID.

• USE 1–TOUCH DIALING

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

Key 1 is used to access your voice mail. Check with your service provider for details. Also, any key can be set up to dial emergency numbers such as 911.

Assign a number to a 1–touch dialing key

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

2 Press **Select**.

> **2 (empty)** appears.

If **Assign** appears, Key 2 does not have a phone number assigned to it. If **Options** appears, then the number shown is assigned to Key 2.

3 Press **Assign**. Enter a phone number OR

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

Activate 1–touch dialing

1 Press **Menu** 4 3 4 (**Settings** > **Call settings** > **1–touch dialing**).

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

Call a 1–touch dial number

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

The phone dials the number.

1–TOUCH DIALING FOR KEY 1

- If your phone is set up for voice mail, you can press and hold 🔲 and your phone dials your voice mailbox.

- If you assign a 1-touch number to key 1, press 🔲, then press ↘. The phone dials the 1-touch number.

Change 1-touch dialing numbers

1 Press **Names**.

2 Scroll to **1-touch dialing** and press **Select**.

3 Scroll to the key that you want to change, and press **Options**.

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

5 Enter a phone number, then press **OK**.

OR

Press **Find** to recall the number from your phone book.

6 Enter a name, then press **OK**.

Erase 1-touch dialing numbers

1 Press **Names**.

2 Scroll to **1-touch dialing** and press **Select**.

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

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

5 Press **OK** to confirm.

• MAKE AN INTERNATIONAL CALL

1 Press ✎ twice to enter the international dialing prefix (+).

2 Enter the country code, area code, and phone number, and press ➘ .

• USE THE PHONE BOOK

To use phone book menus, begin at the **Start** screen and press **Names**. Then, scroll through the menus to select a particular menu or option.

Option	Action
Find	Searches for a specific name.
Add entry	Enters a new name and number.
Edit name	Allows you to change a name.
Erase	Erases names/numbers. You can choose to erase individual names/numbers, or you can erase all information at one time.
Copy	Copies names/numbers between your phone and SIM card.
Add number	Allows you to enter more than one number per name.
Settings	Chooses the memory source (SIM card or internal), phone book view, and shows the memory status.
1-touch dialing	Allows you to assigns a 1-touch dial location to the name. Refer to "Use 1-touch dialing" on page 61 for more information.
Voice tags	Programs voice-activated dialing
Info numbers	If your SIM card and network service supports this feature, you can access service numbers on different topics, such as weather and entertainment.
Service nos.	Includes phone number for service call.
Own numbers	Allows you to view your phone number.
Caller groups	Renames or changes the ringing tone for a caller group.

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11 Use voice features

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

• ABOUT VOICE MAIL

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

To use voice mail, you must have:

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

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

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

Voice mail indicators

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

Additionally, if you receive more than 1 voice mail message, your phone may display the number of messages that you have received. Finally, if you subscribe to 2 different phone lines, the message would indicate the line to which the message was addressed.

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

• SAVE THE VOICE MAILBOX NUMBER

1   Press **Menu** 01 9 2 (**Messages** > **Voice messages** > **Voice mailbox number**).

2   Enter your voice mailbox number, then press **OK**.

Work with 2 phone lines

If your particular SIM card supports it, your phone can have 2 phone lines. Your service provider can tell you if your SIM card allows the use of this feature and can give you access to 2 phone lines.

If you decide to use 2 phone lines, you can select 1 of the 2 lines for outgoing calls, but you can still answer calls on both lines.

If you use 2 phone lines, you will be given a voice mailbox number for each line. You need to save each phone line's voice mailbox number separately.

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

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• LISTEN TO YOUR VOICE MESSAGES

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

- If you've saved your voice mailbox number in your phone, press and hold ⬚ to call your voice mailbox.

- Press ⬚ to call your voice mailbox and follow the directions provided.

- Call your voice mailbox number as you would any other telephone number, then follow the directions provided.

• USE THE VOICE RECORDER

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

Record a memo

1   Press **Menu** 10 1 (**Extras** > **Voice recorder**).

2   To begin recording, scroll to **Record**, then press **Select**.

3   Clearly state your note. When you are finished, press **Stop**.

When **Title:** appears, enter a name and press **OK** to save it.

Recording saved appears on the screen.

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

1   Press **Clear** to erase the name. Then press **Back**.

2   **Recording will not be saved. Continue?** appears on the screen.
Press **OK**.

Record a phone conversation

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

1   Place the call.

2   While in the call, press **Options**.

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

While you are recording, the screen shows
the amount of time left.

```
Recording
        2:45/2:50
             Stop
```

4   When you are finished, press **Stop**.

5   **Recording saved** appears on the screen, and the conversation is
automatically saved under the name "Recording." You can edit the
name later.
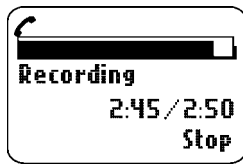
Listen to or edit a memo

1   To listen to or edit a recorded memo, press **Menu** 10 1 2 (**Extras** >
Voice recorder > **Recordings list**), then press **Options**.

2   Scroll to one of the following options:

•   Select **Playback** to listen to the memo.

- Select **Edit title** to change the name of a memo. Enter the new name and press **OK**.

- Select **Erase** to delete the memo.

Set an alarm

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

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

1 Press **Menu** 10 1 2 (**Extras** > **Voice recorder** > **Recordings list**).

   If you have more than 1 voice memo recorded, scroll through the recording list to find the memo you want.

2 Press **Options**. Scroll to **Add alarm** and press **Select**.

3 Enter the date and time for the alarm, then press **OK**.

   Alarm added appears on the screen.

Notes about voice memos

- You have about 180 seconds, but the maximum length of the memo depends on available memory.

- There are 3 audio cues to indicate the recording status to both parties in an active phone conversation. The start tone plays when recording begins. A recording tone plays every 5 seconds while the conversation is being recorded. An ending tone signals the end of the recording.

- When the recording tone starts to beep every 2 seconds, you only have 10 seconds left for your voice memo.

- If the memory is full when you try to record a new voice memo, **No space for new recording** appears on the screen. You have the choice to erase an existing voice memo to free up space for the new recording.

- If you are recording an active phone conversation and you receive a call on your second phone line, the voice memo ends and is saved automatically.

• USE VOICE DIALING

Your phone's voice dialing feature allows handsfree operation while you place a call. Before using this feature, you need to create entries in the phone book so you can associate a "voice tag" with a name and number.

Add a voice tag to a phone book entry

To create entries in the phone book, see "Save names, numbers, and e-mail addresses" on page 39.

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

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

3   Press **Select**. The phone displays **Press Start, then speak after tone**.

4   Press **Start**.

    You will hear several beeps, and **Please speak now** appears. If you're using the headset, release the button.

5   Speak clearly into the microphone.

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

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

If the recording is not successful, your phone displays an error message. Press **Options**, scroll to **Add voice tag**, and repeat steps 3 - 5.

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

About voice tags

Before using voice dialing, note that:

- Voice tags are not language dependent. They are dependent on the speaker's voice.

- Voice tags are sensitive to background noise. Record them and make calls in a quiet environment.

- When recording a voice tag or making a call by saving a voice tag, hold the phone in the normal position near to your ear.

- Very short names are not accepted. Use long names and avoid similar names for different numbers.

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

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

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Make a call using voice recognition

1 Press and hold **Names** OR

   Press and hold the volume down key on the side of the phone.

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

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

   If the phone does not locate a number, **No match found** appears.

   If you're using the headset and the phone does not locate the number, you will hear an error tone and **No match found** appears. To start voice dialing again, press and hold the headset button immediately after the error tone.

Listen to a voice tag

1 Press **Names** and scroll to **Voice tags**.

2 Press **Select**, then scroll to the name with the voice tag you want to hear.

3 Press **Options**, scroll to **Playback**, and press **Select**.

Change a voice tag

1 Press **Names** and scroll to **Voice tags**.

2 Press **Select**, then scroll to the name with the voice tag you want to change.

3 Press **Options**, scroll to **Change,** and press **Select**.

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

4 Press **Start**, then say the new name.

   The phone repeats your voice tag, and **Voice tag changed** appears.

Erase a voice tag

1 Press **Names** and scroll to **Voice tags**.

2 Press **Select**, then scroll to the name with the voice tag you want to change.

3 Press **Options**, scroll to **Erase** and press **Select**.

   Erase voice tag? appears.

4 Press **OK** to erase the voice tag.

• USE VOICE COMMANDS

The voice command feature allows access to handsfree operation for certain phone functions. Voice commands work similar to voice dialing. Before using voice commands, you must first associate a voice tag to the phone function.

> **Note:** You do have to press a button to activate the command, see "Activate a voice command" on page 72.

View available functions

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

Press **Menu** 10 2 (**Extras** > **Voice commands**) and scroll through the list of features.

Phone feature	Use a voice tag to select a profile or activate a feature
Profiles	Normal
	Silent
	Meeting
	Outdoor
	Pager
Voice mailbox	Call voice mailbox
Infrared	Activate infrared
Voice recorder	Record

Add a voice tag for the command

1. Press **Menu** 10 2 (**Extras** > **Voice commands**).

2. Scroll to the phone feature you want, then press **Select**.

3. Press **Options**.

   Add command appears on the screen.

4. Press **Select**.

5. 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 that have voice tags assigned.

Activate a voice command

After you associate a voice tag with a phone feature, you can issue a command by speaking the voice tag. There are 3 ways to activate a voice command:

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

OR

Press and hold **Names**.

OR

Press and hold the volume down key.

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

> **Note:** You cannot use voice commands if you are actively sending or receiving data using the GPRS connection.

Work with an existing voice command tag

After you have associated a voice tag to a command, you can choose to playback a tag, change a tag or erase a tag.

1 Press **Menu** 10 2 (**Extras** > **Voice commands**).

2 Scroll to the feature, then press **Select**.

3 Press **Options**.

4 Scroll to **Playback**, **Change** or **Erase**, then press **Select**.

5 Follow the prompts on the screen.

12 Personalize your phone

• WHAT ARE PROFILES?

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

You can modify the settings in each profile, and (except for the Normal, Car, and Headset profiles) you can rename them.

Select a profile

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

2   Scroll to the profile you want to use (for example, **Normal**) and press **Select**.

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

Customize the profile

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

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

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

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

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Option	What it does
Ringing options	Allows you to chose a ringing style. Your choices include **Ring**, **Ascending**, **Ring once**, **Beep once** and **Silent**.
Ringing tone	Allows you to chose from 35 pre-programmed tones. You can also download up to 5 ringing tones, see "Download ringing tones" on page 82 for more information.
Ringing volume	Allows you to set the volume for incoming calls.
Vibrating alert	Allows you to turn the vibrating alert on or off. Note: your phone has an internal vibrating mechanism so you do not need a special battery to use this feature.
Message alert tone	Allows you to chose an alert style. Your choices include **No tone**, **Standard**, **Special**, **Beep once**, **Ascending** and **Personal**.
Keypad tones	Allows you to set the volume for keypad tones.
Warning tones	Allows you to turn warning and confirmation tones on or off.
Alert for	You can chose to have your phone sound an audible alert only when a member of a selected caller group is calling. For more information about Caller groups, see "Use caller groups" on page 79.
Profile name	Allows you to give a new name to the following profiles: **Silent**, **Meeting**, **Outdoor** or **Pager**.

12

Set a timed profile

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

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

2 Scroll to the profile you wish to activate, then press **Select**.

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

4 Enter the time for the profile to expire and press **OK**.

5 If you are using a 12-hour time format, scroll to **am** or **pm** then press **Select**.

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

About accessory settings

12

You can use your phone with these accessories:

- Nokia Headset

- Nokia Car kit

- Nokia Loopset

When you connect your phone to an accessory approved by Nokia, the phone automatically selects the matching profile.

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

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

Default profile allows you to adjust settings related to the accessory, such as ring tone.

Set automatic answer

This profile lets your phone answer incoming calls after just 1 ring.

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

1   Press **Menu** 4 6 (**Settings** > **Accessory settings**).

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

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

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

Use the loopset setting

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

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

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

loopset jack
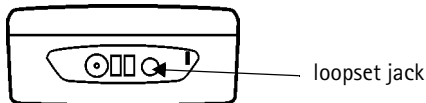
2   Press **Menu** 4 6 3 (**Settings** > **Accessory settings** > **Loopset**).

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

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

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

Use the car setting

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

• ADJUST VOLUME CONTROL

You set your volume by adjusting the earpiece volume buttons. See "About your phone" for an illustration of volume control keys located on the left side of the 8390.

• CHOOSE THE DISPLAY LANGUAGE

You can choose your phone's display language.

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

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

```
                         4-4-1-2
 English
 Français
 Español
 Select            Back
```
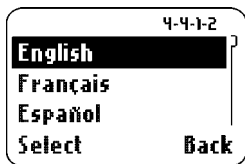
• SET UP THE CLOCK

Your phone has an internal clock that can be displayed on the Start screen. It also features an alarm clock (see "Use the alarm clock" on page 118).

Note: You may need to set the clock each time the battery runs out or is removed and reinstalled.

12

Set the time

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

2   Scroll to **Set the time**, then press **Select**.

3   Enter the current time, using 2 digits for both hours and minutes.

    OR

    Enter hours and minutes in 24-hour format.

4   Press **OK**.

5   Select **am** or **pm** and press **Select**.

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

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

Select the time format

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

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

3 Press **Select**.

Display the clock

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

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

2 Scroll to **Hide clock** or **Display clock** (only 1 choice appears, depending on the current setting).

3 Press **Select**.

Set automatic update of date and time

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

1 Press **Menu** 4 2 2 (**Settings** > **Time settings** > **Auto update of date and time**).

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

• **On:** Updates the date and time automatically.

• **Confirm first:** Requires you to confirm that you want the update.

• **Off:** Prevents the date and time from being automatically updated.

• USE CALLER GROUPS

You can add phone book entries to one of five caller groups, and assign a unique ringing tone or graphic to that group. This enables you to identify callers from that caller group by their unique ringing tone or graphic. A caller group can be as small as 1 person or as large as your entire phone book. Caller groups can be renamed to suit your preference.

Add names to a caller group

The name you add to a caller group must first be stored in the phone book. For instructions, see "Save names, numbers, and e-mail addresses" on page 39.

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

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

3 Scroll to **Caller groups** and press **Select**.

4 Scroll through the list of caller groups until you find the one you want, then press **Select**. The following Caller groups are available:

Family   **VIP**   **Friends**   **Business**   **Other**   **12**

Remove names from a caller group

1 Follow steps 1-3 above.

2 Scroll to **No group** and press **Select**.

Assign a ringing tone to a caller group

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

2 Scroll to **Caller groups** and press **Select**.

3 Scroll to the group you want and press **Select**.

4 Scroll to **Group ringing tone** and press **Select**.

5 Scroll to the tone you want to hear when anyone from this group calls you and press **Select**.

Set your phone to ring only for a caller group

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

For example, if you do not want to be disturbed unless a family member calls, you would follow these steps.

> **Note:** In this example, the phone gives an *audible* alert for the **Family** caller group. The phone gives a *visual* alert with blinking lights if any other person calls you.

1 Add the names and numbers of your family to the **Family** caller group by following Steps 1-4 listed under "Add names to a caller group" on page 79.

2 Press **Menu** 3 (**Profiles**), scroll to **Normal**, then press **Select**.

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

4 Scroll to **Alert for**, then press **Select**.

5 Scroll to **All calls**, press **Unmark**, then press **Back**.

The phone prompts you to save changes, press **Yes**.

6 At the **Alert for** menu, press **Select**.

7 Scroll to **Family**, press **Mark**, then press **Back**.

The phone prompts you to save changes, press **Yes**.

Rename a caller group

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

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

2 Scroll to **Caller groups** and press **Select**.

3 Scroll to the group you want and press **Select**.

4 Scroll to **Rename group** and press **Select**.

5 Enter the new group name, then press **OK**.

Use group graphics

Each caller group has a graphic (picture) associated with it. When you get a call from someone whom you have assigned to a caller group, the graphic associated with that group flashes on the screen.

To turn the graphic on for a caller group:

1 Press **Names**, scroll to **Caller groups**, and press **Select**.

2 Scroll to the name of the group and press **Select**.

3 Scroll to **Group logo** and press **Select**.

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

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

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

SEND A GRAPHIC
1 Follow steps 1-3 above.

2 Scroll to **Send logo** and press **Select**.

3 Enter the phone number or scroll to find it in your phone book, then press **OK**.

VIEW A RECEIVED GRAPHIC
1 When you receive a graphic from someone else, **Group logo received** appears.

2 To view the graphic, press **Show**.

3 After viewing the graphic, press **Options** and then choose one of the following:

• **Save** to save it. (You must choose which caller group gets the new graphic.)

• **Discard** to delete it.

4 Press **Select**.

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• DOWNLOAD RINGING TONES

You can download up to 5 ringing tones to replace the **Personal** entries in your list of ringing tones. For details about this network service, contact your wireless service provider.

Notification of received ringing tone

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

Listen to received ringing tones

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

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

   Playback is selected.

2 Press **OK**.

   The phone plays the ringing tone.

Save received ringing tones

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

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

   The tone is saved to your list of ringing tones.

Discard received ringing tones

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

• RESTORE FACTORY SETTINGS

You can reset some of the phone settings to their original values.

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

1 Press **Menu** 4 9 (**Settings** > **Restore factory settings**).

2 Enter the Security code, then press **OK**.

• CHANGE XPRESS-ON™ COLOR COVERS

To personalize your 8390, you can change the front and back covers.
Nokia Xpress-on™ covers are available in several fashion colors.
Extra covers may be purchased from your authorized Nokia dealer.

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

Remove the back cover

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

2 Slide the cover off.
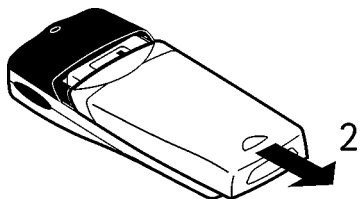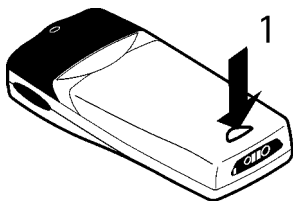
Remove the phone from the front cover

1 With the back of the phone facing you, find the plastic tabs on the bottom of the phone.

2 Grasp the plastic tabs and gently separate the phone from the front cover.
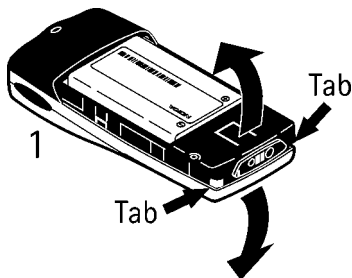
Change the keypad

1 Lift the keypad from inside the old front cover.

2 Place the keypad into the new front cover.
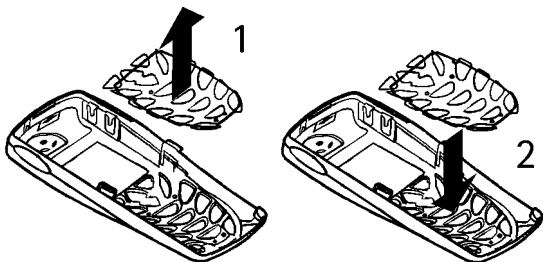
Replace the new front cover

1 To replace the front cover, align the top of the phone with the top of the front cover. Make sure both sets of plastic tabs line up with their slots, as shown at right.

2 Align the cover and snap it shut all the way around the edge of the phone.

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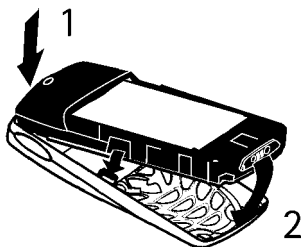
Replace the back cover

1   Direct the back cover towards the locking catches on the phone.

2   Slide the back cover until it locks into place.

Locking catches
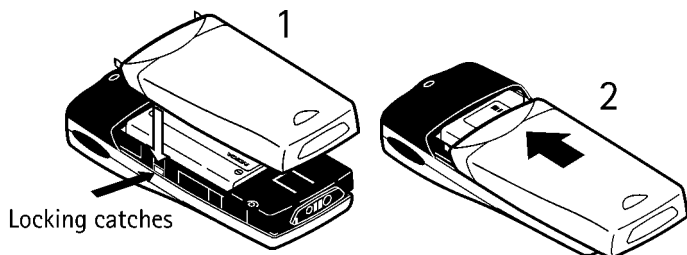
13 Manage phone security

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

- avoid making accidental calls,

- prevent unauthorized use of your phone, and

- restrict outgoing or incoming calls.

• LOCK THE KEYPAD (KEYGUARD)

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

- To lock the keys, press **Menu,** then 🔑.

- To unlock the keys, press **Unlock**, then 🔑.

Note: Keyguard does not prevent unauthorized use of your phone.

Note: Connecting your phone to a car kit automatically disables Keyguard.

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

• ABOUT SECURITY CODES

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

Code	Purpose	For more information
Security code	Required by several phone features. If phone security is on, the phone requests the security code the first time you use it after installing a new SIM card.	See "Clear call lists" on page 47, "Clear call timers" on page 47, "Clear the data counter" on page 50, "Restore factory settings" on page 82 and "Erase your entire phone book" on page 42.
PIN code	If SIM card security is on, the phone requests the PIN code every time the phone is turned on.	See "PIN codes" on page 88.
PIN2 code	Required by several phone features.	See entries for show call costs, call cost limit, fixed dialing, and PIN and PIN2 codes.
Restriction password	Required by the restrict calls feature.	See "About your restriction password" on page 91.

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• PIN CODES

The PIN and PIN2 codes are 4- to 8-digit numbers that usually come from your service provider along with the SIM card. Use the PIN code to protect your phone and SIM card against unauthorized use. The PIN2 code activates some of your phone's functions, such as Call cost limit. See "Manage call costs" on page 48.

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

Enter the code then press **OK**.

Set PIN code request

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

1 Press **Menu** 4 8 1 (**Settings** > **Security settings** > **PIN code request**).

2 Enter the PIN code supplied by your service provider, and press **OK**.

3 Scroll to **On** and press **OK**.

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

Change your PIN or PIN2 code

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

1 Press **Menu** 4 8 6 (**Settings** > **Security settings** > **Change access codes**), scroll to the PIN code you want to change, then press **Select**.

2 Enter the current PIN code and press **OK**.

3 Enter the new PIN code and press **OK**.

4 Enter the new PIN code again to verify, and press **OK**.

> **Note:** If you make a mistake while entering the code, **Code Error** appears. Start again at step 2 and be careful to enter the correct code. If you enter the wrong code 3 times in a row, the PIN code is blocked. To unblock the PIN code, you need a Personal Unblocking Key (PUK).

• PUK CODES

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

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

• SECURITY CODE

> **Note:** The default security code is 12345.

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

Enter the code then press **OK**.

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

Change the security code

1 Press **Menu** 4 8 6 (**Settings** > **Security settings** > **Change access codes**).

2 Scroll to **Change security code** and press **Select**.

3 Enter the current security code, then press **OK**.

4 Enter the new security code, then press **OK**.

5 Enter the security code again to verify, then press **OK**.

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

• USE FIXED DIALING

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

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

Turn fixed dialing on or off

1   Press **Menu** 4 8 3 (**Settings** > **Security settings** > **Fixed dialing**).

2   Scroll to **On** or **Off**, then press **OK**.

3   Enter your PIN2 code, then press **OK**.

Add numbers to the fixed dialing list

1   Press **Menu** 4 8 3 (**Settings** > **Security settings** > **Fixed dialing**).

2   Scroll to **Number list**, then press **Select**.

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

4   Enter your PIN2 code and press **OK**.

5   Enter a name to go with the restricted phone number, then press **OK**.

6   Enter the phone number you want to restrict, then press **OK**.

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

• RESTRICT CALLS

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

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

Turn on call restrictions

1   Press **Menu** 4 8 2 (**Settings** > **Security settings** > **Call restrictions**).

2   Scroll through the types of calls you can restrict, and press **Select** when you see the one you want.

Outgoing calls: Calls cannot be made.

International calls: Calls cannot be made to foreign countries.

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

Incoming calls: Calls cannot be received.

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

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

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

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3   Scroll to one of the following options:

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

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

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

4   Press **OK**.

About your restriction password

Contact your service provider for the restriction password.

Change your restriction password

1   Press **Menu** 4 8 6 (**Settings** > **Security settings** > **Change access codes**).

2   Scroll to **Change restriction password**, then press **Select**.

3   Enter your new password, then press **OK**.

• SET UP A CLOSED USER GROUP

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

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

Turn on closed user group

1   Press **Menu** 4 8 4 (**Settings** > **Security settings** > **Closed user group**).

2   Scroll to **On**, enter the group number, then press **Select**.

Turn off closed user group

1   Press **Menu** 4 8 4 (**Settings** > **Security settings** > **Closed user group**).

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

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14 Select a system

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

1 Press **Menu** 4 4 3 (**Settings** > **Phone settings** > **System selection**).

2 Scroll to **Automatic** or **Manual**, then press **Select**.

- **Automatic**: The phone automatically selects one of the available systems.

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

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15 Communicate with text messages

The text message network service allows you to send short text messages to other phones that have text message capability. You can also ask the service provider to convert the message to other formats such as e-mail and fax.

• MESSAGE SETTINGS

Before you can send and receive text you must:

- Have a text messaging subscription through your service provider.

- Know your message center number.

- Save your message center number in your phone.

- Set up other message settings, such as GPRS.

Save your message center number

Note: Your service provider supplies the message center number.

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

2 Scroll to **Message settings**, then press **Select**.

3 Press **Select** twice.

4 Enter your message center number, then press **OK**.

Set the message mode

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

Note: The default message type is text.

Note: This feature must be supported by your service provider.

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

2   Scroll to **Message settings**, then press **Select**.

3   Press **Select**. Scroll to **Messages sent as**, then press **Select**.

4   Scroll to **Text**, **E-mail, Paging,** or **Fax**, then press **OK**.

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

Choose other message settings

You can modify the following message settings (see Chapter 6, "List of Menu Shortcuts" for menu numbers):

Choice	What it does
Message validity	Describes the amount of time that your message center will try to deliver a message. You can choose a time from 1 hour to 1 week.
Default recipient number	Allows you to specify a single recipient for all your messages.
Delivery reports	Allows you to ask the network for a report about message delivery.
Use GPRS	Allows you to send your messages via the General Packet Radio System (GPRS).
Reply via same center	Choose this when you want your recipient to reply through the same message center. **Note**: Do not choose **Yes** unless you know the recipient has the same service provider.
Rename sending profile	Allows you to name the profile. This option depends on SIM card.

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• WRITE MESSAGES

You can use the text message feature to send a short text message to another phone or to send an e-mail message.

🔆 **Tip:** Review ABC mode and predictive text input from "Enter letters and numbers" on page 32 before reading this section.

Send text messages

1   Press **Menu** 01 1 (**Messages** > **Write message**).

   Write messages appears briefly, followed by the message screen.

2   Enter a message of up to 160 characters.

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

3   Once you have finished writing, press **Options**, scroll to **Send**, then press **Select**.

4   Enter or recall the recipient's phone number, then press **OK**.

   Sending message appears.

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

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

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

Save messages in the outbox

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

1 While writing the message, press **Options**.

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

3 Scroll to **Outbox**, then press **OK**.

Resend a message from the outbox

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

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

3 Scroll to the message you want to resend, then press **Select**.

   The message appears on the screen.

4 Press **Options** and scroll to **Send**.

5 Enter the number and press **OK** to send the message.

Send an e-mail message

There are 2 ways of sending an e-mail message.

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

• You can send an e-mail message from the phone book.

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

> **Tip:** Be sure to set the message mode to e-mail before you write your message. See "Set the message mode" on page 94 for details.

FROM THE MESSAGES MENU

1   Press **Menu** 01 1 (**Messages** > **Write message**).

Write messages appears briefly, followed by the message screen.

2   Enter a message of up to 160 characters.

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

3   Once you have finished writing, press **Options**, scroll to **Send**, then press **Select**.

The e-mail entry box appears.

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

OR

Press **Find** to find the e-mail address from your phone book, then press **OK**.

5   Enter the E-mail server number and press **OK**.

Confirmation messages appear.

FROM THE PHONE BOOK

First you must have an e-mail address entered into the phone book. See Chapter 8 "Use the phone book" for more details.

1   Press ⌄, then scroll to the person to whom you want to send an e-mail.

2   Press **Details**, then scroll down to the e-mail address. Press **Options**.

3   Scroll to **Send e-mail**, then press **Select**.

4   The e-mail address appears on the screen. Enter your message after the e-mail address.

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

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

6 The e-mail address appears on the screen. Confirm by pressing **OK**.

7 Enter the E-mail server number and press **OK**.

Confirmation messages appear.

• READ TEXT MESSAGES

Read new text messages

When you receive a text message, the phone displays **Message received** and the ⊡ indicator, and makes a sound.

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

Read new text messages later

1 When you receive a text message, press **Exit**.

2 Later when you want to read the message, press **Menu**, then press **Select**.

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

A list of message headers is displayed. The ⊠ icon in front of the header indicates that a message has been read. The ⊠ icon indicates that a message has not yet been read.

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

5 If the message is long, use the scroll keys to scroll through the message.

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Choose text message options

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

Choice	What it does
Erase	Allows you to delete the message.
Reply	Allows you to choose templates, use standard replies "Yes," "No," "Thank you," or compose your own reply from a blank screen.
Use number	Allows you to extract numbers from the current message. The phone goes through and gathers all phone numbers in the message, including the originating address.
Forward	Allows you to send the message to another recipient.
Forward options	Allows you to send your message to many recipients.
Edit	Allows you to modify the message.
Move	Allows you to move the message to the Outbox or Archive, for example.
Rename	Allows you to enter a new title for the message.
Copy to calendar	Copies the message to your phone's calendar as a reminder note.
Details	Shows, for example, the sender's name and phone number, message center used, reception date and time.
Font size	Allows you to choose a small or large font size.
Save picture	Allows you to save a picture to the template folder.

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• STORE MESSAGES

Messages in the inbox share a given amount of memory in your SIM card and phone memory. When this memory is full and there is no more room to store messages, the message indicator blinks. If you are sent a text message when the memory is full, the phone displays the message **No space: message waiting**. You should delete 1 or more old messages to make room for the new message. The network waits and resends the message at a later time.

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

• CHAT WITH OTHER PHONE USERS

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

> **Note:** This feature may not be available in this version of the product. If there is no chat option on the menu, this product version does not support this feature.

About the chat screen

On the chat screen, you'll see:

- your chat name, followed by a message

- your initial message appear at the bottom of the screen

- each reply appear above the last message

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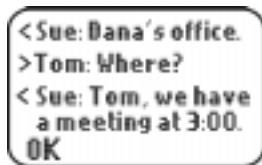
Start a chat session

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

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

3 Enter the other party's phone number or recall it from the phone book and press **OK**.

4 Enter your chat name and press **OK**.

5 Write your chat message, press **Options**, then press **Send**.

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

6 Press **OK** to clear the screen and reply to the message.

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

Use predictive text for quick replies

When you are in a chat session, you can use the phone's dictionary to help speed up text entry. For more information see "Predictive text input" on page 35.

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

2 Scroll to **Predictive text**, then press **Select**.

3 Scroll to the language you want, then press **Select**.

View chat history

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

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

2 Scroll to **Chat history** and press **Select**.

Change your nickname

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

2 Scroll to **Chat name**, press **Select**, then enter new nickname.

End your chat session

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

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

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

• USE PICTURE MESSAGES

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

You can also save new pictures in the Templates folder.

> **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.

About picture messages

- Each picture message is made up of several text messages. Therefore, sending 1 picture message may cost more than sending 1 text message. Contact your service provider for pricing information.

- Since pictures are saved in the phone's memory, you cannot view them if you use your SIM card with another phone.

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Send picture messages

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

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

3 Scroll to the picture you want to send, and press **Select**.

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

4 Press **Options**, scroll to **Send**, then press **Select**.

5 Recall or enter the phone number to which you want to send the picture message.

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

6 Press **OK**.

Send picture messages with text

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

2 Enter your message, then press **Options**.

3 Scroll to **Attach picture**, then press **Select**.

4 Scroll to the picture you want to send, then press **View**.

5 After viewing the picture, select **Attach**.

6 Select **Options**, scroll to **Send**.

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

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

Receive picture messages

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

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

3 Press **Save picture** to keep the picture message, or press **Exit** to delete it.

• USE THE INFO MESSAGE SERVICE

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

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

• USE THE SERVICE COMMAND EDITOR

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

Note: For more information, contact your service provider.

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16 Your wireless Internet browser

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

• NOTES ON WIRELESS INTERNET ACCESS

This section gives a brief overview of wireless Internet technology.

Technology background

WAP

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

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

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Internet content on your personal computer is called a "web page." Internet content on your mobile phone is called a "page," or "WAP card."

GPRS

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

- For information about how to track time spent online, see "Check data calls" on page 50.

- For information about sending messages via GPRS, see "Choose other message settings" on page 95.

- For information about dial-up connections, refer to "GPRS dial-up connections" on page 131.

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

The Service provider's role

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

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

• SET UP FOR BROWSING

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

• SIGN ON TO THE WIRELESS INTERNET

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

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

Press **Menu** 11 (**Services**). Scroll to **Home**, then press **Select**.

OR

Press and hold the ⬤ key.

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

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

• USE BROWSER OPTIONS

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

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

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

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• NAVIGATE THE WIRELESS INTERNET

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

General guidelines for using the phone keys

• Use the scroll keys to browse the WAP site. ⌃ ⌄

• To select a highlighted item, press ⬉.

• To enter letters and numbers, press the keys ⟨0⟩ to ⟨wxyz9⟩.

• To enter special characters, press the ⟨*⟩ key.

Examples of wireless Internet sites

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

Header line: shows the current Internet site.

Inactive link: appears as an underlined word.

Active link: appears as a highlighted word.

.COM News
News
Sports
Entertainment
Options

Use ⌃ and ⌄ to scroll through the list of links.

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

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

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

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Main menu
Welcome! Please choose
from the following:
Info
[Timetables]
News
Options   Back

Data entry field: Brackets [ ] around 3 dots appear when you need to enter information. In this example, you can enter your zip code to receive the local weather forecast.

```
┌─────────────────────────────┐
│ ╭ Find Weather               │
│   Enter ZIP                  │
│   (ex. 12345)                │
│                              │
│  [▓▓▓▓▓▓▓▓▓▓▓▓▓▓]            │
│   Options          Back      │
└─────────────────────────────┘
```

• USE BOOKMARKS

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

Set a bookmark while browsing

You can add up to 25 bookmarks.

1   Press **Menu** 11 (**Services**), scroll to **Home**, press **Select**, then **Options**.

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

3   Press **Options**.

4   Scroll to **New bookmark**, then press **Select**.

5   Enter address, then press **OK**.

6   Enter a title, then press **OK**.

• DISCONNECT FROM THE INTERNET
To close your connection, simply press ╭ twice.

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• SECURITY ISSUES

Be sure to clear the cache memory
The information or services you access with the WAP browser are temporarily saved in the cache memory of the phone. A cache is a buffer memory, which is used to store data temporarily.

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

CLEAR THE CACHE

1 Press **Menu** 11 (**Services**).

2 Scroll to **Clear the cache**, then press **Select**.

CLEAR THE CACHE WHILE BROWSING

1 Press **Options**.

2 Scroll to **Clear the cache**, then press **Select**.

About authority certificates

To use some WAP services, such as banking services, you need an authority certificate. Using the certificate can help you to improve the security of connections between your phone and a WAP server.

You can download the certificate from a WAP page if the WAP service supports the use of authority certificates. After the download, you can view the certificate, then save or delete it. If you save the certificate, it is added to the list of certificates in the phone.

Your phone alerts you if the identity of the WAP server or WAP gateway cannot be verified or is not authentic.

VIEW THE LIST OF AUTHORITY CERTIFICATES

1 Press **Menu** 11 (**Services**).

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

3 Scroll to **Authority certificates**, then press **Select**.

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• NOTES ABOUT GPRS

The following icons appear on the screen to show you the status of your GPRS connection.

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

G	Shows up in the upper left corner of the screen. Indicates an active GPRS connection, for example, when you are using the WAP browser.
⛛	Indicates that circuit switched (CS) or voice calls are not possible when using GPRS.
⛛	Indicates that the GPRS connection has been interrupted by a voice call.

Set up an automatic connection

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

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

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

- **Always online**: the phone is automatically registered to a GPRS network when you turn your phone on. When you use the WAP browser, the connection between your phone and the network is created and data transfer is possible. When you exit the WAP browser, the GPRS connection ends but the registration to the GPRS network remains.

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- **When needed**: the GPRS connection is established when you use the WAP browser and is closed when you exit the WAP browser.

Receive a call while online

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

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

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

Make a call while online

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

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

Make an emergency call while online

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

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

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17 Your personal digital assistant

Your Nokia 8390 phone has many useful features for organizing your everyday life, including a calendar, to-do list, and alarm clock. In this chapter, you'll learn how to use your phone as a digital assistant.

• USE THE CALENDAR

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

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

View the calendar

To see the current day's calendar screen, press **Menu** 8 (**Calendar**).

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

Make a note

When you make a note in your calendar, you can choose from 4 different types: meeting note, call note, birthday note and memo. Your phone asks you for more information depending on which one you choose.

1 Press **Menu** 8 (**Calendar**), then press **Options**.

2 Scroll to **Make a note**, then press **Select**.

3 Scroll to **Meeting**, **Call**, **Birthday** or **Memo**, then press **Select**.

4 Enter your note, then press **OK**.

• For a meeting note, the phone prompts you to enter a time.

- For a call note, the phone prompts you to enter a phone number, a name and the time.

- For a birthday note, the phone prompts you for the person's name, date and year of birth.

5 Set the alarm for a meeting note, call note or birthday note by choosing one of the following:

- **Alarm on**

- **Alarm off**

You may have other alarm options, depending on the type of calendar note you are working with. For example, you may set an alarm for a meeting note to alert you at the event time or up to 30 minutes before the event.

After you make a calendar note and return back to the day view, the appropriate icon appears in the lower right-hand corner of the calendar screen:

📅	Birthday note
🗓	Meeting note
☎	Call note
🗒	Memo

Choose options for calendar notes

When viewing a calendar note, you can choose from the following options:

Choice	What it does
View	Allows you to expand the calendar note, from one-line to the whole screen.
Make note	Allows you to create a new calendar note.
Delete	Allows you to delete the note from the calendar.
Edit	Allows you to modify your note.

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Choice	What it does
Move	Allows you to change the date, time, and alarm of the note.
Repeat	Allows you to define whether the note should be repeated. You can repeat a note on a daily, weekly or yearly basis. **Note:** The birthday note can only be repeated on a yearly basis.
Go to date	Allows you to jump to a certain date.
Send note	Allows you to send the calendar note to another phone via IR, smart messaging or as a short text message. See "Send calendar note to another device" in chapter 18 for more information.
Copy	Allows you to copy the note to another location in the calendar.
Settings	Allows you to modify general settings, including date format, time format, auto erase and others.

• MAKE A TO-DO LIST

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

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Add a to-do note

When you add a new note, the default priority is medium (2). You can change the priority to high (1) or low (3).

1 Press **Menu** 7 (**To-do list**), then press **Options**.

2 Scroll to **Add**, then press **Select**.
   Subject: appears on the screen.

3 Enter your note, press **Options**, scroll to **Save**, then press **Select**.

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

Use predictive text for quick note entry

When you make a to-do note, you can use the phone's dictionary to help speed up text entry. For more information see "Predictive text input" on page 35.

1 From the **Subject** prompt, press **Options**.

2 Scroll to **Predictive text**, then press **Select**.

3 Scroll to the language you want, then press **Select**.

**4** Enter your note as described in the above section (Add a to-do note).

Choose other to–do options

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

Choice	What it does
View	Allows you to view the selected note.
Add	Allows you to add another note.
Erase	Allows you to delete a note.
Edit	Allows you to modify the contents of a note.
Edit priority	Allows you to change the priority level of a note. Your choices are high, medium and low.
Go to priority	Allows you to view notes for a certain priority level. You can go to only the high priority notes, for example.
Save to calend.	Allows you to save the to-do note as a calendar note.
Send as text	Allows you to send the note as a text message to another phone.

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• USE THE ALARM CLOCK

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

```
                          4-1
Alarm clock
                    12:00 pm
Select              Back
```
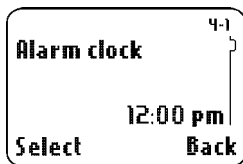
Set the alarm clock

See "Set up the clock" on page 77 for more information about time formats.

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

2   Enter the alarm time in **hhmm** format.

3   Press **OK**.

4   Select either **am** or **pm** and press **Select**.

> **Note:** Step 4 is necessary only if you have selected a **12-hour** format.

Manage the alarm

PHONE ON

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

- Press **Snooze**.

    The alarm stops and sounds again in 10 minutes.

> **Note:** If you let the alarm sound for 1 minute without pressing a key, it stops for 10 minutes, and then sounds again.

PHONE OFF

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

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

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Turn off the alarm clock

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

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

• USE THE COUNTDOWN TIMER

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

> **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.

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

Set the countdown timer

1   Press **Menu** 10 3 (**Extras** > **Countdown timer**).

2   Enter 2 digits for hours, 2 digits for minutes, then press **OK**.

3   Enter a note, then press **OK**.

Change the time

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

1   Press **Menu** 10 3 (**Extras** > **Countdown timer**).

2   Scroll to **Change time**, then press **Select**.

3   Enter the time, then press **OK**.

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

Stop the timer

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

• When the alarm sounds, press any key during the alarm to stop the timer.

• After 30 seconds the timer alert expires automatically.

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BEFORE THE ALARM SOUNDS

1 Press **Menu** 10 3 (**Extras** > **Countdown timer**).

2 Scroll to **Stop timer**, then press **Select**.

   Timer stopped appears on the screen.

• USE THE STOPWATCH

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

> **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.

Measure time

1 Press **Menu** 10 4 (**Extras** > **Stopwatch**).

2 Scroll to **Split timing**, then press **Select**.

3 Press **Start**.

The running time appears on the screen.

Measure split time

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

1 Press **Menu** 10 4 (**Extras** > **Stopwatch**).

2 Scroll to **Split timing**, then press **Select**.

3 Press **Start**.

4 Take an intermediate time by pressing **Split**.

The clock continues to run.

The split time appears below the running time.

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If you split the time more than once, the new measured time appears at the beginning of the list. You can scroll to see previous measured times.

Measure lap time

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

1   Press **Menu** 10 4 (**Extras** > **Stopwatch**).

2   Scroll to **Lap timing**, then press **Select**.

3   Press **Start**.

     The running time appears on the screen.

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

The clock stops, then starts immediately from zero.

The lap time appears below the running time.

If you take more than 1 lap time, the new measured time appears at the beginning of the list. You can scroll to see previous measured times. When you press **Stop**, the total time appears at the top.

Stop the clock

Press **Stop** to end the time measurement.

Save the time

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

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

3   Enter a name for the measurement, then press **OK**. If a name is not entered, the total time is used as a title.

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Choose 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.
Erase times	Allows you to delete the saved times. You can delete the saved times one by one or all at once.

Note about stopwatch operation

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

If you press 📞 and return to the Start screen, the clock continues to run in the background and the 🖻 icon appears in the upper left corner of the screen.

To return to the Stopwatch screen, take the following steps:

1   Press **Menu** 10 4 (**Extras** > **Stopwatch**), scroll to **Continue**.

2   Press **Select**.

To stop the clock, press **Stop**.

• SHARE BUSINESS CARDS

Your phone can send or receive electronic business cards consisting of a name and phone number. You can save received business cards to your phone book.

There are 2 ways to send a business card:

- You can send the information via IR. See Chapter 18 "Your phone and other devices" for details.

- You can send the business card as a short text message.

Send a business card as a short text message

1   Recall the name from your phone book.

2   Press **Details**, if shown, or skip to Step 3.

3   Press **Options**.

4   Scroll to **Send bus. card** and press **Select**.

5   Scroll to **Via text msg.** and press **Select**.

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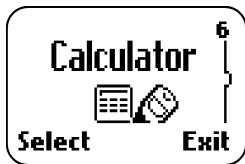
7   Press **OK**.

Note: For information on receiving business cards, see "Receive a business card from another device" on page 128.

• USE THE CALCULATOR

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

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

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

Add, subtract, multiply and divide

1   Press **Menu** 6 (**Calculator**).

2 Enter the first number in the calculation.

- Press ✐ to enter a decimal point and press **Clear** to erase any mistakes.
- To add, press ✑ (+ appears)
- To subtract, press ✑ 2 times (- appears)
- To multiply, press ✑ 3 times (∗ appears)
- To divide, press ✑ 4 times (/ appears)

3 Enter the second number, repeating steps as needed.

4 Press **Options**. **Equals** is selected.

5 Press **Select**.

Use the square and square root functions

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

1 Press **Menu** 6 (**Calculator**).

2 Enter the number.

3 Press **Options**, scroll to **Square** or **Square root**, then press **Select**.

Convert currency

SET THE EXCHANGE RATE

1 Press **Menu** 6 (**Calculator**), then press **Options**.

2 Scroll to **Exchange rate**, then press **Select**.

3 Scroll to **Home units converted to foreign units** or **Foreign units converted to home units**, then press **Select**.

4 Press **Clear** to remove any numbers from the **Exchange rate** box.

5 Enter the exchange rate (press ✐ to enter a decimal point).

6 Press **OK**.

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

CONVERT A CURRENCY AMOUNT

1 Enter the amount to be converted.

2 Press **Options**.

3 Scroll to **To home** to convert to domestic units or **To foreign** to convert to foreign units.

4 Press **Select**.

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18 Your phone and other devices

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

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

Do not point the IR (InfraRed) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

> **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.

• PREPARE THE DEVICES FOR IR CONNECTION

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

1 Clear any obstructions between the 2 devices.

2 Point the IR ports at each other.

3 Make sure the 2 devices are no more than 3 feet (0.9 Meters) apart.

3 FT. Maximum Distance

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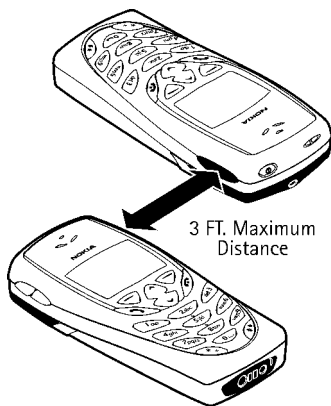
• INFRARED BASICS

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

1 Make sure the 2 devices are ready for the IR connection.

2 To receive information on your phone, press **Menu** 9 (**Infrared**) and then press **Select**.

3 Have the user of the sending device select the desired IR function to start data transfer.

If data transfer is not started within 2 minutes, the connection is cancelled and will have to be restarted.

Note: You do not have to "turn off" the IR function in your phone. After data transfer, the IR connection automatically drops after about 2 minutes.

Check the status of an IR connection

The status of an IR connection is indicated by ▶■■■ .

• When ▶■■■ is displayed continuously, there is an IR connection between your phone and the other device.

• When ▶■■■ blinks, your phone is trying to establish a connection with the other device or a connection has been lost.

• When ▶■■■ is not displayed, no IR connection exists.

• SEND AND RECEIVE INFORMATION

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

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Send a business card to another device

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

1   Recall the name from your phone book.

2   Press **Details**, if shown, or skip to Step 3.

3   Press **Options**.

4   Scroll to **Send bus. card** and press **Select**.

5   Scroll to **Via infrared** and press **OK**.

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

The phone sends the business card through its IR port.

Receive a business card from another device

You can receive business cards from another compatible phone.

1   Point the IR ports at each other.

2   Press **Menu** 9 (**Infrared**).

3   When you see the message **Business card received**, press **Show**.

4   Press **Options**, scroll to **Save** or **Discard**, then press **OK**.

- If you press **Save**, you see the confirmation message **Business card saved**.

- If you press **Discard**, you see the question **Discard business card?** Press **OK** to delete the card.

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

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Send calendar notes to another device

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

1 Select the calendar note you want to send, then press **Options**.

2 Scroll to **Send note**, then press **Select**.

3 Scroll to **Send via IR**, then press **Select**.

The phone sends the note to the other device.

Receive calendar notes from another device

You can receive calendar from another compatible phone.

1 Point the IR ports at each other.

2 Press **Menu** 9 (**Infrared**).

3 When you see the message **Calendar note received**, press **Show**.

4 Press **Options**, scroll to **Save** or **Discard**, then press **Select**.

• If you press **Save**, you see the confirmation message **Calendar note saved**.

• If you press **Discard**, you see the question **Discard calendar note?** Press **OK** to delete the note.

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

• PC CONNECTIVITY

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

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Nokia PC Suite

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

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

  Note: If you already have a Nokia phone, you can copy your names and numbers to the 8390 with Content Copier. Compatible phones include the Nokia 5190, 6190, 8290, 8890, 7160, 7190, 6360, 3320 and 3360.

- Edit phone book names and numbers, profiles, and settings via your PC's keyboard (Phone editor).

- Create new ringing tones and send them to your phone (PC Composer).

- Synchronize your phone's contacts and calendar items with applications such as Microsoft Outlook, Outlook Express, and Lotus Notes (PC Sync).

- Compose new graphics and transfer from your PC to your phone (PC Graphics).

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

Wireless modem setup

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

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

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Download Nokia PC Suite and Modem Setup

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

http://www.nokia.com

• GPRS DIAL-UP CONNECTIONS

When you use your Nokia phone as a wireless modem, you have the option of enabling GPRS connectivity from your PC or laptop computer.

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

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

For more information, see the PC/PDA connectivity guide. This document can be downloaded from the Nokia website:

http://www.nokia.com

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19 Fun and games

• GAME RULES

Challenge yourself or a friend to the 4 fun games in your phone.

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

Start a new game

1 Press **Menu** 5, scroll to **Select game**, then press **Select**.

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

Adjust game settings

1 To adjust sound, lights or vibra, press **Menu** 5, scroll to **Settings**, then press **Select**.

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

• SNAKE 2

Feed the snake with as many goodies as possible and watch it grow. Use keys 2, 4, 6, and 8 to turn the snake toward food. The longer the snake's tail grows, the higher your score. You can choose to have a clear field, or select from 5 different mazes. If the snake runs into its own tail or the surrounding wall, the game is over.

Start a 2-player game

Snake can be played as a 2-player game using the IR ports of 2 phones.

Before starting a 2-player game, make sure that the IR ports of the 2 devices are pointing at each other and that the IR connection is activated. Both players need to start the same game on their phones.

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• SNOWBOARDING

The object of the game is to get a high score by pulling as many tricks as you can. While in the air, the trick indicator will appear. Try to complete tricks by using different key press combinations. Land using the 5 key. Tricks must begin and end on the markers.

Big air mode

Catch huge air and go for your best combo tricks on the big ramp.

Downhill mode

Ride to the bottom of the slope as fast as you can.

Use 4 to steer left and 6 to steer right, 5 to jump.

Halfpipe mode

Ride the half-pipe pulling as many tricks as you can for the most points.

Use 4 to steer left and 6 to steer right, 5 to jump.

• BUMPER

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

• PAIRS 2

Uncover pictures to find pairs, but use as few tries as possible. In Arcade mode, you must find all the pairs before the bomb explodes. Move the cursor with keys 2, 4, 6, and 8. Press 5 to reveal the pictures.

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20 Reference information

• BATTERIES, CHARGERS, AND ACCESSORIES

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

Check the model number of any charger before use with this device. This phone is intended for use when supplied with power from an ACP-7U, an ACP-8U, LCH-8 or an LCH-9 charger. Other usage could invalidate any approval given to this apparatus and may be dangerous.

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

Note: For information on how to charge and recharge your battery, refer to "Charge the battery" on page 10.

When the battery is fully charged, the indicator will tell you that the battery is fully charged.

When you are not using a charger, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since prolonged maintenance charging could shorten its life span. If left unused, a fully-charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge. Therefore, allow it to cool down or warm up before trying to charge it.

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

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

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

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

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

The following list provides guidelines that you can follow:

- When the operating time (talk time and standby time) is noticeably shorter than normal, buy a new battery.

- Use the battery only for its intended purpose.

- Never use any charger or battery that is damaged and/or worn out.

- Batteries *must* be recycled or disposed of properly. Do *not* dispose of batteries by putting them in fire!

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

• IMPORTANT SAFETY INFORMATION

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

Traffic safety

Do not use a handheld telephone while driving a vehicle. Always park the vehicle before using the phone.

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

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

Remember: Safety—Your most important call.

Operating environment

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

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

> **Note:** Do *not* connect incompatible products.

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

Electronic devices

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

PACEMAKERS

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

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

- Should not carry the phone in a breast pocket.

- Should use the ear opposite the pacemaker to minimize the potential for interference.

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

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

OTHER MEDICAL DEVICES
Operation of any radio transmitting equipment, including cellular phones, could interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy. Also contact these authorities if you have any questions.

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

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

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.

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Potentially explosive atmospheres

Switch off your phone if you are in any area that has a potentially explosive atmosphere, and obey all signs and instructions. Sparks in such areas could cause an explosion or fire, resulting in bodily injury or even death.

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

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

Vehicles

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

Regularly check that all wireless phone equipment in your vehicle is mounted and operating properly.

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

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

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

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

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• EMERGENCY CALLS

IMPORTANT!

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

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

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

Make an Emergency Call

1   If the phone is not on, switch it on.

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

2   Enter the emergency number for your present location (for example, 911 or any other official emergency number—emergency numbers vary by location).

3   Press ✆ .

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

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

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CERTIFICATION INFORMATION (SAR)

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 1.05 W/kg, and when worn on the body, as described in this user guide, is 1.10 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of **http://www.fcc.gov/oet/fccid** after searching on **FCC ID LJP NSB-8**.

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

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

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• CARE AND MAINTENANCE

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

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

* Keep it and all its parts and accessories out of the reach of small children.

* Keep it dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits.

* Do not use or store it in dusty, dirty areas as its moving parts can be damaged.

* Do not store it in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

* Do not store it in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which could damage the phone's electronic circuit boards.

* Do not attempt to open it. Non-expert handling of the device could damage it.

* Do not drop, knock or shake it. Rough handling can break internal circuit boards.

* Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap-and-water solution.

* Do not paint it. Paint can clog the device's moving parts and prevent proper operation.

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

• ACCESSORIES

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

A FEW PRACTICAL RULES FOR ACCESSORY OPERATION

- Keep all accessories out of reach of small children.

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

- Check regularly that any vehicle-installed accessories are mounted and are operating properly.

- Installation of any complex car accessories *must* be made by qualified personnel only.

Use only batteries, chargers, and accessories that have been approved by the phone manufacturer. The use of any other types could invalidate any approval or warranty applying to the phone, and could be dangerous. Refer to "Batteries, chargers, and accessories" on page 134 for important battery usage information.

• BATTERY INFORMATION

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

Note: The phone has a lithium ion (Li-ion) battery. Dispose of used batteries in accordance with any local regulations.

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

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Charging Times

The charging times listed below are approximate.

Battery option	ACP-7U Charger	ACP-8U Charger
BLB-2 Li-ion Battery 750 mAh	3 hours	2 hr 10 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). The operation time of the battery depends on conditions such as:

• Transmitting power level

• Signal (distance between the phone and the base station)

• Network parameters defined by the operator

• Phone use (WAP, games, SMS)

• Charging procedure used

Battery option	Digital talk time	Standby time
BLB-2 Li-ion Battery 750 mAh	2 hours 20 minutes up to 4 hours	Up to 4-16 days

• CHARGERS AND OTHER ACCESSORIES

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

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

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

Standard Travel Charger (ACP-7U)

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

To use the Standard Travel Charger, plug it into a standard 120 V AC wall outlet and connect the lead from the charger to the base of your phone.
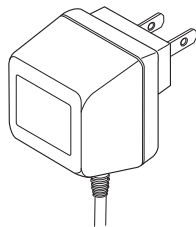
Note: If the battery is completely empty, you cannot use the phone until it has enough charge to operate.

Rapid Travel Charger (ACP-8U)

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

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

The charger can also be used together with the optional Desktop Charging Stand. Approximate charging times for discharged batteries are shown in "Charging Times" on page 144.
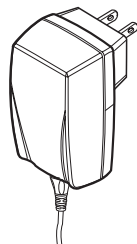
Rapid Cigarette Lighter Charger (LCH-9)

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

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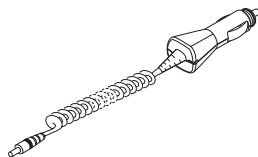
Calls are possible during charging. A green light indicates that the charger is ready for charging (when not charging). The battery charging times are the same as those for the Rapid Travel Charger (ACP-8U).

The input voltage range is from 11 V to 32 V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger (LCH-9) when the car engine is not running; this could cause your car battery to drain. Note also, that in some cars, the cigarette lighter plug is not provided with electricity if the ignition is not switched on.

Desktop Charging Stand (DCD-1)

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

This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.
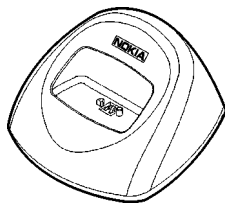
Headset Kit (HDC-5)

Small and lightweight, the headset kit allows easy and convenient handsfree operation. The headset has a foam earpiece cover for a comfortable fit and has a clip to hold it firmly in place. This headset's 4-wire 2.5 mm jack fits directly into the bottom of the phone, see "Set up your headset" on page 12 for more details. A remote control button located in the microphone makes the headset convenient to use while answering or receiving calls. You can use the headset with your phone's voice tag feature, see "Make a call using voice recognition" on page 69 for more information.

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21 Technical information

Weight	2.9 oz.
	83 g. with standard battery
Size	Length 96 mm
	Width 43 mm
	Depth 17–19 mm
Transmitting power	GSM1900, 1 W nominal
Operating voltage	3.6 V DC 12V DC for car kit
Networks	GSM 1900
Frequency band	GSM1900 1850 to 1910 MHz (TX) 1930 to 1990 MHz (RX)
Memory locations	Up to 500 names in phone memory with up to 5 numbers and 4 text entries per name (dynamic memory); Check with your SIM card provider or carrier for information about SIM card memory capacity.

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22 Troubleshooting

This section provides a table that lists some of the most commonly encountered problems and provides possible causes and solutions.

Problem	Possible cause	Possible solution
My phone isn't charging.	The charger and the phone are not properly connected.	Securely connect the charger to the phone.
	The charger is not properly plugged in.	Make sure that the charger is plugged in correctly.
My phone isn't making/answering calls.	The battery is not charged.	Charge the battery.
	The signal strength is poor.	If you are indoors, move toward a window.
I can't listen to my voice messages.	You don't have voice mail service.	Call your wireless service provider.
	You have not set up your voice mailbox with your service provider.	Call your wireless service provider.
	You have not saved your voice mail number in your phone.	Refer to "Use voice features" on page 64.
	The voice mail number you have saved is incorrect.	Call your wireless service provider.
	You have forgotten your password or are entering it incorrectly.	Call your wireless service provider.

22

NOKIA One-Year Limited Warranty

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

1   The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.

2   The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end- user.

3   The limited warranty extends only to Consumers who purchase the Product in the United States of America.

4   During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.

5   Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

6   The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

7   The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

   a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.

   b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.

   c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

   d) The Product serial number plate or the accessory data code has been removed, defaced or altered.

   e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:

a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.

b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:
Nokia Inc., Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901

c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.

d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.

f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

9 You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.

10 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.

13 This is the entire warranty between Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.

14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.

15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.

16 Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)

17 The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

*Nokia is a registered trademark of Nokia Corporation.

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