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NOKIA
3395

User Guide

Nokia 3395

User Guide

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

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

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1 For your safety

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in "Reference information" on page 118 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 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 phone is not water-resistant. Keep it dry.




CALLING

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



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 **Call**. Give your location. Do not end the call until told to do so.

• YOUR PHONE'S LABEL

If you remove your battery (refer to "Remove the battery" on page 12) you can find the phone's label on the back portion of the phone. This label includes various information about the phone, such as the model number.

If you ever have to call Nokia (refer to "Contacting Nokia" on page 8) or your service provider, you might be asked for this information. Therefore, do *not* remove the phone's label.

2 Welcome

2

Congratulations on your purchase of a Nokia mobile phone. You are now on your way to using a new and exciting tool. However, before you use your phone, read this chapter. It provides information you need for using this guide and for contacting Nokia.

• USING THIS GUIDE

For clarity, this guide uses various icons and terms. These icons and terms are described in "About indicators and icons" on page 15 and "Terms" on page 4. Additionally, the guide describes various network services features, enabled by your service provider. Refer to "Network services" on page 7.

Documentation conventions

This guide uses various types of texts to indicate specific items. These are called documentation conventions. The table below lists and describes these conventions.:

Convention	Description
<i>italic</i>	Indicates emphasized text. Example: You <i>cannot</i> use your phone without this card.
bold	Indicates one of the following items: <ul style="list-style-type: none">• Text displayed on your phone's screen. Example: Select or Silent.• Special text such as Notes and Warnings.• A Web link. Example: The Nokia World Wide Web site at www.nokia.com.

Terms

This guide uses the following terms:

- **Press** means to briefly press and release a button.
- **Press xxx** means to press the selection key that is below xxx.

Example: Press **Menu**
means to press here



- Cross references appear as "see page x."
- **Press and hold** means to press and hold a button for 1 to 3 seconds (depending on the feature being used), then release the button.

Icons

The following icons are used to alert you to important information:



Tip: Provides information for easy operation.



Note: Provides explanatory information.



Important: Provides information critical to using features correctly.



Caution: This information helps avoid loss of data.







Warning: This information helps avoid damage to the phone, personal injury, or property damage.

• ACCESSING THIS GUIDE ONLINE

The latest version of this User Guide may be available on the Nokia World Wide Web site at www.nokia.com. Go to **Phones, US link**, and then perform a search to access this documentation. Also, an interactive user guide is available at www.nokiahowto.com.

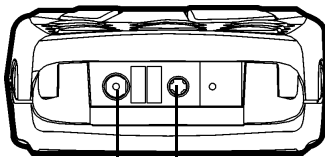
• KEYS AND FEATURES

Front

- 1- Power key 
- 2- Earpiece
- 3- Screen
- 4- Navi™ key 
- 5- Scroll keys 
- 6- Number keys
- 7- Microphone
- 8- Clear key 

Note: When you press any key the keypad lights stay on for up to 15 seconds.

Bottom

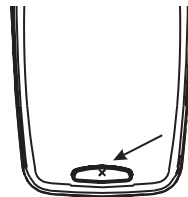


Charger connection Headset/Car kit connection

Back



Antenna

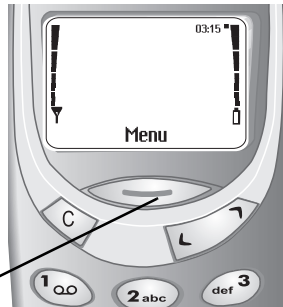


Back cover release





Navi key

The use of the phone is largely based on the Nokia Navi™ key, located below the display. This key's function varies according to the text displayed in the screen above the key. For example, in this screen, the word **Menu** appears above the Navi™ key. Press the key to enter the menu function.



Navi-key

Scroll keys


The scroll keys   are located to the right of the Navi-key. Use the scroll keys to:

- browse menus
- move the cursor
- adjust earpiece volume during a call

Scroll keys



Clear key

The clear key  is to the left of the menu key. Press the clear key:

- to delete a character to the left of the cursor, or press and hold to clear all characters from the display
- to return to the previous menu level
- to return from the menu to the start screen
- to access the in-call menu

Clear key



• NETWORK SERVICES

A number of features known as network services are described in this guide. These are special services to which your wireless service provider can give you access.

These services include the following:

- Voice privacy
- Call forwarding
- Call waiting
- Send own number
- News and info services
- Picture messages
- Conference calling
- Caller ID
- WAP

Before you can take advantage of these network services features, you must subscribe to them through your service provider.

Your service provider will give you instructions on how to use these network services. This guide will tell you when you need to contact your service provider for more step-by-step information.

Whenever this guide talks about a network services feature, the text will not only tell you that this is a network services feature, but will also display this icon ⁺⁺ after the first mention of the feature within a chapter.



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

Features marked with this icon ⁺⁺ might not be supported on all carrier networks.

• CONTACTING NOKIA

The Nokia Customer Service department is available to provide you with help or more information. Before you contact this department, however, please have the following information available:

- The phone's model number
- The phone's IMEI (serial) number (3395)
- Your Zip code

To find the serial number, you have to remove the battery. Refer to "Remove the battery" on page 12 for step-by-step instructions on this procedure.

Finally, if you are calling about any type of phone accessory, please have the accessory available. For example, if you are calling about a headset, please have it handy. This way, if you are asked a specific question about the accessory, it will be available for quick reference.

Nokia Customer Care Center, USA

Nokia Mobile Phones, Inc.

7725 Woodland Center Boulevard, Suite 150

Tampa, FL 33614

Tel: 1-888-NOKIA-2U (1-888-665-4228)

Fax: (1) 813-249-9619

For the hearing-impaired only (TTY):

1-800-24-NOKIA (1-800-246-6542)

Customer Service, Canada

Nokia Products Ltd.

601 Westney Rd. South

Ajax, Ontario L1S 4N7

Tel: 1-888-22-NOKIA (1-888-226-6542)

Fax: 1-905-427-1070

3 Before you begin

Before you begin using your phone, you need to perform several tasks. This section tells you how to complete these tasks.

3

• PREPARE YOUR PHONE FOR USE

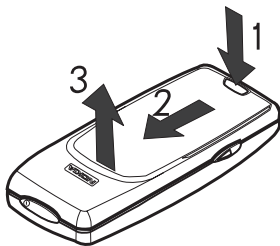
- "Install the SIM card" (see below).
- "Install the battery" on page 10.
- "Charge the battery" on page 11.

To find out how to remove a battery, refer to "Remove the battery" on page 12.

Remove the back cover

1&2 Press the back cover release button and slide the cover as shown.

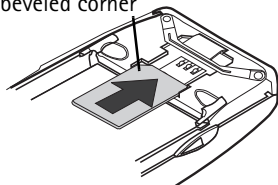
3 Lift the cover off the phone.



Install the SIM card

- 1 Align the SIM card
 - Beveled corner as shown.
 - Gold contact area downward.
- 2 Insert the SIM card.

beveled corner

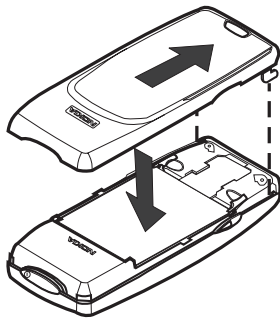
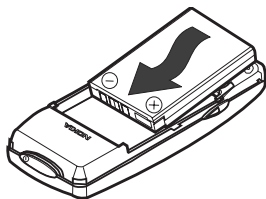


Notes about SIM cards

- 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.

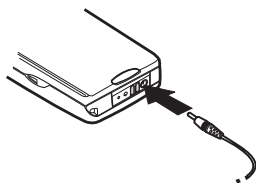
Install the battery

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



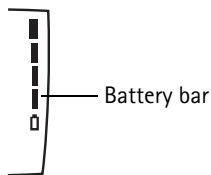
Charge the battery

- 1 Connect the lead from the charger to the bottom of the phone.



3

- 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.



- 3 When the battery is charged, the battery bar stops scrolling. **Battery full** appears also, if the phone is on.
- 4 Disconnect the charger from the phone.

For best performance, charge your phone's battery for 24 hours before using your phone.

Battery notes

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

- Use the battery until it is fully discharged. Repeat this procedure twice for a total of three charging cycles.
- Battery operation time may be less than the estimated times during the first charges. This condition is normal.
- You can use your phone while the battery is charging. However, if the battery is completely empty, it may need to recharge a few minutes before you can make or receive calls or the battery indicator appears.



Note: The battery will accept a "trickle charge" for an additional two hours. See "Reference information" on page 118 for more information on batteries.

Remove the battery

- 1 Switch off the phone.

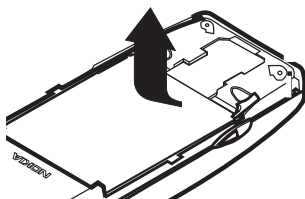
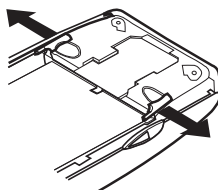
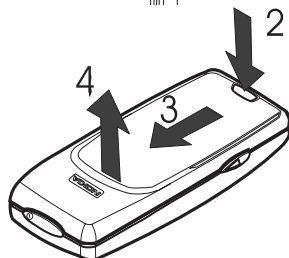
3

- 2&3 Remove the back cover.

- 4 Lift off the cover.

- 5 Press the two release catches outward.
The battery pops up.

- 6 Lift out the battery.





Note: When you remove and replace the battery, you must reset the phone's clock. See "Set up the clock" on page 66.

• IMPORTANT BATTERY INFORMATION

3



Important: Your phone is powered by a rechargeable battery.

Use only batteries approved by Nokia and recharge your battery only with the chargers approved by Nokia. Never use any charger or battery which is damaged.

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

The BLB-3 battery doesn't need a full discharge before recharging.

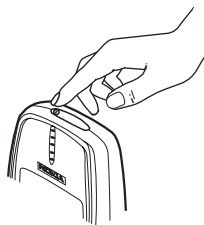
4 About your phone

4

• SWITCH ON YOUR PHONE

- Press and hold  for two seconds.

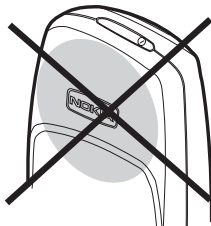
The phone might ask for a Personal Identification (PIN) code or a security code. See “PIN and PUK codes” on page 68 for more information.



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



Important: 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 might cause the phone to operate at a higher power level than needed.



• 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 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 “Icons” on page 15.

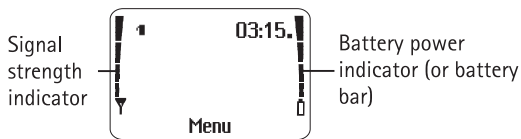


About indicators and icons

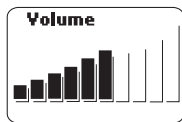
On your phone, you have two types of identifiers: indicators and icons.

INDICATORS


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






- **Signal strength indicator:**
Shows the strength of the signal to your phone.
- **Battery power 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 scroll keys (see "Adjust the earpiece volume during a call" on page 19).


























ICONS

Icons are graphical representations of a specific item or situation. For example, this icon  may appear when you have a voice message waiting to be heard. (Some systems use a different method.)

The rest of this section shows examples of each icon that can appear on your phone and tells you what these icons indicate.

-  Line 1 is selected for outgoing calls.
-  Line 2 is selected for outgoing calls.
-  You have an active call.

-  You have one or more new voice messages. (Some carriers may use a different symbol)
-  You have one or more new text messages. (If blinking, text message memory is full.)
-  Keypad lock is on. Your phone will not accept any key presses.
-  The alarm clock is set.
-  The Silent profile is selected.
-  Incoming voice 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 lines 1 and 2.
-  The phone is ready for you to enter a response.
-  Characters entered will be uppercase letters. Press  to switch letter case.
-  Characters entered will be lowercase letters. Press  to switch letter case.
-  Characters entered will be numbers. (When entering letters, switch to numbers by pressing and holding .)
-  You are in "special character" mode. Select a character, then press Use. (When entering letters, press and hold the  key to see the special characters menu.)
-  You are in predictive text mode.
-  You are in predictive text mode. Characters entered will be uppercase letters. Press  to switch letter case.
-  You are in predictive text mode. Characters entered will be lowercase letters. Press  to switch letter case.



You are in predictive text mode. Characters entered will be numbers.



Indicates the current call.



Indicates a call on hold.



Indicates voice security is active.



Indicates voice security is not active.



Note: Check with your service provider for the voice security feature.

5 Making and answering calls

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

5

• MAKE A CALL

Check the signal strength

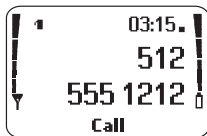
The signal indicator on the left side of your phone's screen shows the strength of the network radio signal. The indicator scrolls as the signal strength increases and decreases. To get the strongest signal, try moving your phone slightly. If you're inside a building, move toward a window.



Use the keypad

- 1 Enter the area code and phone number.
- 2 Press Call.

Hold the phone as you would any other telephone, with the antenna pointed up.





Important: As with any other radio transmitting device, do *not* touch the antenna when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.



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  and scroll to the number you want.
OR

Press , then press the number key that matches the first letter of the name to skip ahead quickly in the list.



- 2 Press Call to make the call.

Advanced calling options

- Make an international call:
see "Make an international call" on page 58.
- Make a call using the voice tag feature:
see "Use Voice dialing" on page 53.
- Make a 1-touch call:
see "1-touch dialing" on page 57.

5

Adjust the earpiece volume during a call

- To increase the volume, press .
- To decrease the volume, press .

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




Note: This feature works only during a call.

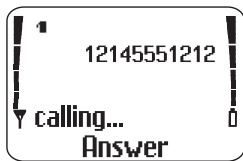
• END A CALL

- Press End.

• ANSWER A CALL

When someone calls you, the phone alerts you (see "Ringing options" on page 62) and calling flashes on the display.

- To answer, press any key except .




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 display the caller's phone number. The caller's name may also appear, if their name and number have been stored in the phone book (see "Phone book" on page 30), or if the wireless network supports it.

5

• REJECT A CALL

- Press  and the phone stops ringing.




Note: You can also set the phone so that the call goes to voice mail. This feature must be set up with Call Forwarding. See "Call forwarding++" on page 48. for more information.

• REDIAL THE LAST-DIALED NUMBER

- Press , then Call.

Dial any of the 10 last-dialed numbers



- 1 Press  to scroll to the number you want to redial.
- 2 Press Call.

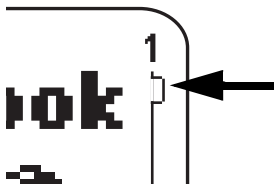
6 The menu

Your phone offers an extensive range of 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.

- **SCROLL BAR**

While using 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 .



6

- **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.

- **MENU SHORTCUTS**

When you scroll to a menu item, the menu number appears on the screen above the scroll bar. If you learn the menu numbers, you can use them to quickly find features instead of scrolling to them through the menu.



• LIST OF MENU SHORTCUTS

- To access phone book menus, press **Menu 01**, then the menu number.
- To access other menus, press **Menu**, then the menu number.
- Some menus may not appear. Ask your service provider for details.

6

1 Phone book



- 1 Search
- 2 Add entry
- 3 Erase
- 4 Edit
- 5 Options
 - 1 Phone book view
 - 2 Memory status
- 6 Send entry
- 7 1-touch dialing
- 8 Voice tags
 - 1 Add voice tag
 - 2 Playback
 - 3 Change
 - 4 Erase
- 9 Assign tone
- 10 Service nos.

2 Messages



- 1 Inbox
- 2 Outbox
- 3 Write messages
- 4 Picture messages

5 Templates

- 1 Please call...
- 2 I'm at home...
- 3 I'm at work...
- 4 I can't answer...
- 5 I am late...
- 6 (empty)

6 Smileys

7 Message settings

- 1 Set 1 (up to five sets may appear)
 - 1 Message center number
 - 2 Messages sent as
 - 1 Text
 - 2 Fax
 - 3 Page
 - 4 E-mail
 - 3 Message validity
 - 1 1 hour
 - 2 6 hours
 - 3 24 hours
 - 4 3 days
 - 5 1 week
 - 6 Maximum time
- 2 Common
 - 1 Delivery reports
 - 1 Yes

- 2 No
- 2 Reply via same center
 - 1 Yes
 - 2 No
- 8 News & info service
 - 1 On
 - 2 Off
 - 3 Topic index
 - 4 Topics
 - 5 Language
- 9 Service command editor
- 10 Voice messages
 - 1 Listen to voice messages
 - 2 Voice mailbox number

3 Call log

- 1 Missed calls
- 2 Received calls
- 3 Dialed calls
- 4 Clear call lists
 - 1 All calls
 - 2 Missed calls
 - 3 Dialed calls
 - 4 Received calls
- 5 Call timers
 - 1 Last call
 - 2 All calls
 - 3 Received calls
 - 4 Dialed calls

5 Clear timers

4 Profiles

- 1 Normal
- 2 Silent
 - 1 Select
 - 2 Customize
 - 1 Ringing tone
 - 2 Ringing volume
 - 3 Ringing options
 - 4 Message alert tone
 - 5 Keypad tones
 - 6 Warning tones
 - 7 Vibrating alert
 - 8 Screen saver
 - 9 Rename
- 3 Discreet
- 4 Loud
- 5 (empty)
- 6 (empty)

5 Settings

- 1 Alarm clock
- 2 Clock
 - 1 Hide clock
 - 2 Set the time
 - 3 Time format
- 3 Auto update of date and time
 - 1 On
 - 2 Confirm first

- 3 Off
- 4 Call settings
 - 1 Automatic redial
 - 1 On
 - 2 Off
 - 2 Calling card
 - 1 None
 - 2 Card A
 - 3 Card B
 - 3 Closed user group
 - 1 Preset
 - 2 On
 - 3 Off
 - 4 Send own caller ID when calling
 - 1 Preset
 - 2 On
 - 3 Off
 - 5 Call waiting
 - 1 Activate
 - 2 Cancel
 - 3 Status
 - 6 Line for outgoing calls (see your service provider)
 - 1 Line 1
 - 2 Line 2
 - 7 Automatic answer (Headset attached)
 - 1 On
 - 2 Off
- 5 Phone settings
 - 1 Language
 - 1 Automatic
 - 2 English
 - 3 Français
 - 4 Español
 - 2 Cell info display
 - 1 On
 - 2 Off
 - 3 List of own numbers
 - 4 System selection
 - 1 Automatic
 - 2 Manual
 - 5 Touch tone length
 - 1 Short
 - 2 Long
 - 6 Welcome note
 - 8 Restore factory settings
- 6 Security settings
 - 1 SIM card security
 - 1 On
 - 2 Off
 - 2 Phone security
 - 1 Off
 - 2 On
 - 3 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
- 4 Fixed dialing (see your service provider)
- 5 Change access codes
 - 1 Change PIN code
 - 2 Change PIN2 code
 - 3 Change security code
 - 4 Change restriction password

6 Forwarding



- 1 Forward all voice calls
 - 1 Activate
 - 2 Cancel
 - 3 Status
- 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
 - 1 Activate
 - 2 Cancel
 - 3 Set delay time
- 6 Cancel all call forwarding



Ask your service provider for details.

7 Games



- 1 Select game
 - 1 Snake II
 - 1 New game
 - 2 High scores
 - 3 Options
 - 1 Mazes
 - 2 Level
 - 4 Instructions
 - 2 Space impact
 - 1 New game
 - 2 High scores
 - 3 Chapters
 - 4 Instructions
 - 3 Bumper
 - 1 New game
 - 2 High scores
 - 3 Tables
 - 4 Instructions
 - 4 Bantumi
 - 5 Pairs II
 - 1 Time trial
 - 2 Puzzle
- 2 Game services
- 3 Settings
 - 1 Sounds
 - 1 Off
 - 2 On
 - 2 Lights
 - 1 Off
 - 2 On

- 3 Shakes
 - 1 Off
 - 2 On

8 Calculator



- 1 Equals
- 2 Add
- 3 Subtract
- 4 Multiply
- 5 Divide
- 6 In home curr.
- 7 In foreign curr.
- 8 Exchange rate

9 Calendar



- 1 View day notes
 - 1 Erase
 - 2 Edit
 - 3 Move
 - 4 Send note
- 2 Make note
 - 1 Reminder
 - 2 Call
 - 3 Meeting
 - 4 Birthday
- 3 Erase notes
 - 1 Of chosen day
 - 2 One by one
 - 3 All at once
- 4 View all notes

- 5 Go to date
- 6 Set the date

10 Composer



- 1 Play
- 2 Save
- 3 Tempo
- 4 Send
- 5 Clear screen
- 6 Exit

11 Services



- 1 Home
- 2 Bookmarks
- 3 Service inbox
- 4 Settings
- 5 Clear cache

12 Keyguard



13 SIM services (if supported by your SIM card and service provider)



7 Entering letters and numbers

You can use two methods to enter letters and numbers into your phone for a person's name and phone number, writing a text message, and so on.

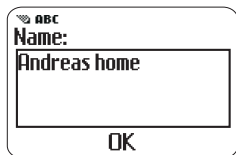
- Standard text input, for making entries in the phone book, calendar notes, writing short text messages, and renaming caller groups.
- Predictive text input, for writing text messages and picture messages. See "Using predictive text input" on page 87. for more information.

• STANDARD TEXT INPUT

ABC mode

This is the default mode. The ABC icon appears as visual confirmation.

- 1 Find the key with the letter you want to enter.
- 2 Press it as many times as needed for the letter to appear on the screen.



Tip: Let the cursor move to the next empty space before entering the next letter.

For example, to enter the name John:

Press		J
Press		O
Press		H
Press		N



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

Key	Characters	Key	Characters
1	., ' ? ! - 1	7	P Q R S 7
2	A B C 2	8	T U V 8
3	D E F 3	9	W X Y Z 9
4	G H I 4	0	Space, 0
5	J K L 5	*	Special characters (See page 29 for details.)
6	M N O 6	#	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 marks, press and hold . A screen appears with the following special characters available:
- ., ? ! : ; - + # * () ' " _ @ & \$ £ % / < > ¿ ¡ ¢ = □ € ¥
- Use the scroll keys to select the character you want, then press Use.

ERASE MISTAKES

If you make a mistake:

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


CHANGE LETTER CASE

- To switch between uppercase and lowercase letters, press .



The ABC icon switches to abc, showing you are using lowercase letters.

123 mode

To enter numbers, you can:


- Press and hold  and switch to 123 mode. Your phone displays the **123** icon. Press the appropriate number key to enter a number.
- OR
- While in ABC mode, press and hold the number key until the number appears.

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


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

Use special characters in names and phone numbers

IN ABC MODE

- 1 Press and hold . A screen appears with the following special characters available:
 . , ? ! : ; - + # * () ' " _ @ & \$ £ % / < > ; i \$ = □ € ¥
- 2 Use scroll keys to select the character you want, then press Use.

IN 123 MODE:

The  key inserts the following characters only in 123 mode:

- * This character sends command strings to the network. Contact your service provider for details.
- + This character is a prefix for dialing international numbers.
- p This character creates 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.

8 Phone book

The Nokia 3395 has a host of options to give you full control of your phone book and its contents.


- A phone book entry can consist of a number only, or a name and number.
- A name may appear only once in the phone book. If you try to save a name that already exists in the phone book, the phone asks if you want to replace the existing name.

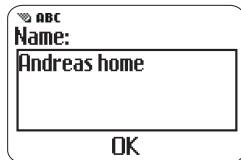



8

• SAVE NAMES AND NUMBERS


Save a name and number

- 1 Enter the phone number.
- 2 Press  and press **Save**.
- 3 Enter a name, then press **OK**.




Tip: For international dialing, press  twice to enter the + symbol in front of the phone number.

Save a number only

- 1 Enter the phone number.
- 2 Press , then press and hold **Save**.

The number is saved in your phone book. You can add a name to it later.

Save a name and number while in a call

- 1 Press  then 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**.



If your phone book is full

If your phone book is full, **Phone book full** displays. You must replace an existing entry.

- Scroll to the entry you want to replace, then press **OK**.

• FIND NAMES IN THE PHONE BOOK

From the Start screen

- Press  to scroll to the number you want.
OR
- Press , then press the key with the first letter of the name you want.

8


OR

- Search the phone book.
- 1 Press **Menu**, then **Select**.
Search appears highlighted.

- 2 Press **Select**.

When the box appears, enter the name and press **OK**. You can enter just the first few letters of the name, then press **OK**. Your phone shows the closest matching name.

While in a call

- 1 Press  then **Options**.
- 2 Scroll to **Phone book** and press **Select**.
Search is highlighted.
- 3 Press **Select**.
- 4 When the box appears, enter the name and press **OK**. You can enter just the first few letters of the name, then press **OK**. Your phone shows the closest matching name.

• EDIT (REVISE) NAMES AND NUMBERS

At the Start screen:

- 1 Press **Menu** then **Select**.
- 2 Scroll to **Edit**, then press **Select**.
- 3 Scroll to the name you want to edit, then press **Edit**.
- 4 Edit the name, then press **OK**.
- 5 Edit the number, then press **OK**.

8

• SEND NAMES AND NUMBERS

You can send names and numbers as electronic business cards to other phones with SMS capability.

- 1 Press **Menu**, then **Select**.
- 2 Scroll to **Send Entry** and press **Select**.
- 3 Scroll to the name and/or number you wish to send the name/number to and press **Send**.
- 4 Enter the phone number to which you want to send the name/number and press **OK**.



Tip: You may need to add a 1 to the number. Check with your service provider for details.

OR

Press **Search** and scroll through the phone book to find the name that you want to send the name/number to.

- 5 Press **OK**. The phone number stored for that name appears.
- 6 Press **OK**.

A confirmation message appears.



• ERASE NAMES AND NUMBERS

Erase selected names and numbers




Important: You *cannot undo* erase functions, so be careful!

At the Start screen:

- 1 Press **Menu**, then **Select**.
- 2 Scroll to **Erase**, then press **Select**.
One by one appears highlighted.
- 3 Press **Select** and scroll to the name you want to erase.
- 4 Press **Erase**, then press **OK**.

OR

If you don't want to erase that name, press  to return to the list.

Erase your entire phone book



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

- 1 Press **Menu** then **Select**.
- 2 Scroll to **Erase** and press **Select**.
One by one appears highlighted.
- 3 Scroll to **Erase all** and press **Select**.
- 4 When you see **Are you sure?**, press **OK**.
- 5 When the **Security code:** prompt appears, enter your security code and press **OK**. Erasing phone book appears.

• PHONE BOOK OPTIONS

- At the Start screen, press **Menu**, then **Select**. Scroll to select an option.

Option	Action
Search	Searches for a specific name. See "Find names in the phone book" on page 31.
Add entry	Enters a new name and number. See "Save a name and number while in a call" on page 30.
Erase	Erases names/numbers. See "Erase names and numbers" on page 33.
Edit	Make changes to names and numbers stored in memory. See "Edit (revise) names and numbers" on page 32.
Options	Chooses the phone book view, and shows the memory status. See next page for details.
Send entry	Sends a phone book entry to another phone. See "Send names and numbers" on page 32.
1-touch dialing	Assigns up to nine 1-touch dial locations. See "1-touch dialing" on page 57 for more information.
Voice tags	Programs voice-activated dialing. See "Use Voice dialing" on page 53 for more information.
Assign tone	Assigns a ring tone for a specific name or number in the phone book. See "Assign tone" on page 35..
Service nos.	View numbers set up by your service provider.

Options

PHONE BOOK VIEW

Change the way names and numbers appear.

- 1 Press **Menu**, then **Select**.
- 2 Scroll to **Options** and press **Select**.
Phone book view appears, along with the current setting.
- 3 Press **Select**.
Three settings appear, with the current setting highlighted:
Name list, **Name + number**, **Name only**.
- 4 Scroll to the setting you want and press **Select**.


CHECK SIM MEMORY STATUS

Your phone saves names and numbers in the SIM card's memory. 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.

- 1 Press **Menu**, then **Select**.
- 2 Scroll to **Options** and press **Select**.
- 3 Scroll to **Memory status** and press **Select**.

Assign tone

Assign unique ringing tones to names and numbers stored in the phone book. When someone with an assigned tone calls, you'll know who it is because of the ringing tone.

- 1 From the Start screen, press **Menu**, and then **Select**.
- 2 Scroll to **Assign tone** and press **Select**.
 **Note:** You must have phone numbers stored in memory.
- 3 Scroll to the name you want to assign a ring tone and press **Assign**.
- 4 Scroll to the ring tone you want for that name, then pause to hear a sample of the tone.
- 5 Press **OK** to select the tone or keep scrolling to select another tone.

• CALL LOG

This network feature automatically keeps track of numbers you've dialed, numbers that have called you, and the time you've spent in calls.



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. A message on the Start screen shows how many calls were missed.

8

AFTER MISSING A CALL

- 1 Press List.

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

- 2 To dial the displayed number, press **Options**.

Call appears highlighted.

- 3 Press **Select** to dial the number.

OR

Scroll for other options. (See "Options in call lists" on page 38 for more information.)

- 4 To exit, press and hold .

AT ANY TIME

- 1 Press **Menu 3 1**.

The phone numbers of missed calls appear in the order received.

- 2 Scroll to the number you want to see information about.

- 3 To dial the number, press **Options**.

Call appears highlighted.

- 4 Press **Select**.


OR

Scroll for other options. (See "Options in call lists" on page 38 for more information.)

- 5 To exit, press and hold .


Look up 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** 3 2.
The last call received appears.
- 2 Scroll to the number you want to see information about.
- 3 To dial the number, press **Options**.
Call appears highlighted.
- 4 Press **Select**.
OR
Scroll for other options. (See "Options in call lists" below.)
- 5 To exit, press and hold .

Look up dialed calls

Your phone saves the last 10 numbers you've dialed.

- 1 Press **Menu** 3 3.
The last call you placed appears.
- 2 Scroll to the call you want to dial.
- 3 To dial the number, press **Options**.
Call appears highlighted.
- 4 Press **Select**.
OR
Scroll for other options. (See "Options in call lists" on next page.)
- 5 To exit, press and hold .

Options in call lists

When you view the missed calls, received calls, or dialed calls list and press **Options**, a list of options appears on your phone's screen.

Call lets you place a call to the number.

Call time shows the time of the last call.

Edit number allows you to call the displayed number and/or edit and save it with a name to your phone book.

Save allows you to enter a name for the number and save both to your phone book.

Erase erases the number from the call list.

Clearing call lists

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

- 1 Press Menu 3 4.
- 2 Scroll to **All calls**, **Missed calls**, **Dialed calls**, or **Received calls**, then press **OK**.
- 3 A confirmation appears.



Tip: Missed, received, and dialed calls lists are also erased when you change the phone security setting (see "Security features" on page 68) or when you use a SIM card that is not one of the five most recent cards used with the phone.

9 Voice mail⁺⁺

Voice mail is a network feature that enables those who call you to leave a voice message.



Note: You can use voice mail with either one or two phone lines.

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.

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

However, even though your phone notifies you of a message, the voice mail feature is independent of your phone's software. To use voice mail, you must have:

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

These items are provided 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 your voice mailbox number to your phone. Refer to "Save the voice mailbox number" on page 40.

After you have saved your voice mailbox number, refer to "Listen to your voice messages" on page 40.



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

• SAVE THE VOICE MAILBOX NUMBER


- 1 Press **Menu 2 1 0 2**.
- 2 Enter your voice mailbox number, then press **OK**.



Note: The number can be up to 32 digits long. Your service provider will give you your voice mailbox number.

• LISTEN TO YOUR VOICE MESSAGES

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

- Press **Read** and follow the directions provided.
- If you've saved your voice mailbox number in your phone, press and hold  to call your voice mailbox.
- Call your voice mailbox number as you would any other telephone number, then follow the directions provided.

10 Profiles

The profiles feature lets you adjust and customize the phone's ringing tones for different events and environments. There are six profiles available:

- **Normal** is the default setting, but it is easy to choose another profile.
- **Silent**
- **Discreet**
- **Loud**
- **(empty)**
- **(empty)**



• SELECT PROFILES

- 1 Press Menu 4.
- 2 Scroll to the profile you want.
- 3 Press OK.

Select appears highlighted.

- 4 Press OK.

OR

- To access the profiles directly, press and release **ⓘ** until the desired profile is highlighted, then press **OK**.

For example, to keep your phone from ringing, select the **Silent** profile. If you want your phone to ring loudly, select the **Loud** profile. You can customize the profiles and even rename them, except **Normal**. See "Customizing your phone" on page 60.

11 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 5 4 5.

Activate appears highlighted.

- 2 Press OK to activate.

OR

Scroll to Cancel and press OK to deactivate.

CONFIRM CALL WAITING STATUS

- 1 Press Menu 5 4 5.

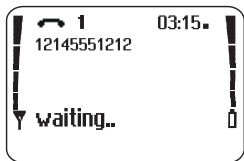
Activate appears highlighted.

- 2 Scroll to Status and press OK.

The display shows **Active: Voice calls**.

ANSWER A WAITING CALL

- 1 Your phone signals when you have a call waiting.
- 2 Press **Options** and then **Answer** to put the current call on hold and answer the waiting call.




REJECT A WAITING CALL

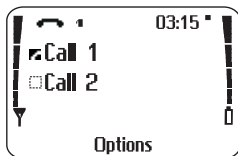
You can just let the phone ring, or follow the steps below.

- Press ,

The caller hears a busy signal when you reject a call.

OR

- You can set Call Forwarding to send the caller to voice mail when you press  or Reject. See "Call forwarding++" on page 48.





- 1 Press **Options** and scroll to **Reject**.
- 2 Press **Select**. The call is sent to Voice mail.

SWITCH BETWEEN CALLS

- 1 Press **Options**.
- 2 When **Swap** appears highlighted, press **Select**.

Swapped appears briefly.

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

END THE ACTIVE CALL

- 1 Press **Options** and scroll to **End active call**.
- 2 Press **Select**.

THIRD CALL WAITING

If you have both an active and a held call, and a third call is waiting, choose one of the following options.


DROP AN ACTIVE CALL TO ANSWER THE WAITING CALL

- 1 Press **Options** and scroll to **End active call**.
- 2 Press **Select** to answer the third call. The held call is unaffected.

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


- 1 Press **Options** and scroll to **End all calls**.
- 2 Press **Select**.

Use in-call options


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

Choice	What it does
Hold or Unhold	Holds or releases a call.
New call	Makes a call when you have a call in progress.
End all calls	Ends all calls.
Touch tones	Sends touch tones.
Phone book	Switches you to the phone book.
Messages	Allows access to text and voice message functions.
Mute	Mutes your phones microphone.


Hold and unhold

- 1 To put a call on hold, press  and then **Options**.
- 2 When **Hold** appears highlighted, press **Select**.

To return to the call:



- 1 Press  and then **Options**.
- 2 When **Unhold** appears highlighted, press **Select**.

New call

- 1 Press  and then **Options**.
- 2 Scroll to **New call**, then press **Select**.

- 3 Enter the second phone number.
OR
Press **Search**, then scroll to the number in the phone book.
- 4 Press **Call**.

SWITCH BETWEEN TWO CALLS IN PROGRESS

- 1 Press **Options**.
- 2 When **Swap** appears highlighted, press **Select**.
The  icon represents the active call and the  icon represents the call on hold.

END THE ACTIVE CALL

- 1 Press **Options** and scroll to **End active call**.
- 2 Press **Select**.

The held call becomes the active call.

End all calls

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

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.

SET TOUCH-TONE LENGTH

- 1 Press **Menu 5 5 5**.
The current selection appears highlighted.
- 2 Scroll to **Short** (1/10 second) or **Long** (1/2 second).
- 3 Press **OK**.


SAVE TOUCH TONE STRINGS

A touch-tone string is a series of tones in a certain sequence. Use touch tone strings to send and receive information with your phone. For example, you can save your office voice mailbox number along with your password for easy access to your messages.


Store touch tone strings the same way you save phone numbers (see "Save names and numbers" on page 30).

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  and then **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**.




Tip: Press  to enter a **p**. Numbers entered to the right of this special character are automatically sent as touch tones after a 2.5-second pause.

OR


Press  to enter a **w**, or "wait". Numbers to the right of the **w** are not sent until you press **Send**.

Phone book

- 1 Press  and then **Options**.
- 2 Scroll to **Phone book** and press **Select**. Now most of your phone book functions are available. See "Phone book" on page 30 for details.

Messages⁺⁺


You can access almost all of your phone's text message, picture message, and voice mail functions during a call. (See "Messages⁺⁺" on page 85.)

- 1 Press , then press **Options**.
- 2 Scroll to **Messages** and press **Select**.
Scroll to the message function you want.

Conference calls⁺⁺

This network service allows you to make a 3-way conference call with your phone. Check with your service provider for details.

MAKE A CONFERENCE CALL

- 1 Make a normal call to the first party.
- 2 Press  and then **Options**.
- 3 Scroll to **New call** and press **Select**.
- 4 Recall or enter the number of the next party you want to include, then press **Call**.
- 5 After the other party answers, press **Options**.
- 6 Scroll to **Conference**, then press **Select**.

END THE CONFERENCE CALL

- 1 Press **Options**.
- 2 Scroll to **End all calls**.
- 3 Press **Select**.

HAVE A PRIVATE CONVERSATION WITH A PARTICIPANT

- 1 While in a conference call, press **Options**.
- 2 Scroll to **Private**, then press **Select**.
A list of the participants appears.
- 3 Scroll to the person you want to speak with, then press **OK**.
- 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**, then press **Select**.
A list of the participants appears.
- 3 Scroll to the person you want to drop, then press **OK**.

- 4 When End appears briefly, press the Navi-key.
- 5 Press Options, then scroll to Transfer.
- 6 Press Select.

• CALL FORWARDING⁺⁺

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



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



The following icons appear on your phone's screen:



Incoming voice calls are being forwarded to another number.



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



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



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

Activate call forwarding

- 1 Press Menu 6. Scroll to one of the following options:
 - 6 1 Forward all voice calls
Forwards all voice calls without ringing.
 - 6 2 Forward if busy
 - 6 3 Forward if not answered
 - 6 4 Forward when phone off or no coverage
 - 6 5 Forward when not able to take calls
Combines the previous three types, and lets you choose a delay time between 5 and 30 seconds.
 - 6 6 Cancel all call forwarding

- 2 Press **Select**.
- 3 **Activate** is highlighted; press **OK**.
- 4 Select **Voice Mail**

OR


Select **Other number**.

If you select **Voice mail**:

- Press **OK**. All calls are forwarded to your voice mailbox.
- To verify your voice mailbox number, press **Details**. **Number** appears highlighted. Press **OK** to verify your voice mailbox number.

If you select **Other number**:

- Press **OK**. Enter the phone number to which you want to forward calls, then press **OK**. Press **Number** to see if you entered the phone number correctly.

- 5 Press and hold  to exit and return to the Start screen.

SET THE DELAY TIME

After setting your phone to "Forward when not able to take calls" (Menu 6 5), you can choose how long your phone will ring before forwarding the call.

- 1 Press **Menu 6 5**.
Activate appears highlighted.
- 2 Scroll to **Set delay time** and press **OK**.
- 3 Scroll to the time delay you want (from 5 to 30 seconds) and press **OK**.
Menu 6 5 appears again.
- 4 Press **Select**.
Activate appears highlighted.
- 5 Press **OK**.
Voice mail appears highlighted.

6 Select Voice mail

OR

Select **Other number** and press **OK**.

A confirmation message appears.

7 Press Details to review your Number and Delay settings.

OR

Press and hold  to return to the Start screen.

Cancel call forwarding

1 Press **Menu 6**.

2 Scroll to the forwarding option you want to cancel and press **Select**.

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



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

Check call forwarding status

1 Press **Menu 6**.

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

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



Note: Status is not available for **Forward when not able to take calls**. Press **Number** to see which phone number the calls are being forwarded to.


• AUTOMATIC REDIAL

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



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

Activate automatic redial

- 1 Press **Menu** 5 4 1.
- 2 Scroll to **On**, then press **OK**.
- 3 Press and hold  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 redials up to nine more times.

• CALLING CARD

You can store two calling card numbers in your phone's memory.


Save calling card information

- 1 Press **Menu** 5 4 2.
- 2 Scroll to the calling card information you want to change (Card A or Card B), then press **Options**.
- 3 Scroll to **Edit**, then press **OK**.
- 4 Enter your security code, then press **OK**. (See "Security code" on page 71.)
- 5 At **Dialing sequence**, press **Select**. Scroll to the dialing sequence your card uses (see chart below) then press **Select**.

Dialing sequence	Use for cards that require you to:	Cards using this sequence
Access no. + Phone no. + Card no.	Dial the 1-800 access number, then phone number, then card number (+ PIN if required).	MCI, AT&T True Choice, Sprint Canada, Unitel
Access no. + Card no. + Phone no.	Dial the 1-800 access number, then card number (+ PIN if required), then phone number.	networkMCI, WorldPhone MCI
Prefix + Phone no. + Card no.	Dial the prefix (any numbers that must precede the phone number) and phone number you want to dial, then card number (then PIN, if required).	GTE, PacBell, AT&T, Stentor



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

- 6 Enter the access number (usually the 1-800 number listed on the back of the calling card), then press **OK**.
- 7 Enter the card number and/or PIN, then press **OK**.
- 8 Your phone displays **Save changes?** Press **OK**.
- 9 When **Dialing sequence** appears again, scroll to **Card name** and press **Select**.
- 10 Enter the card name, then press **OK**.
- 11 Press **Select** to choose that calling card as the current calling card.
- 12 Press and hold  to return to the start screen.

Choose a calling card

- 1 Press **Menu 5 4 2**.
The current calling card setting appears highlighted.
- 2 Scroll to the card you want to use, then press **Options**.
Select is highlighted
- 3 Press **OK**.
- 4 Enter your security code, then press **OK**.
Card ready for use appears.

Make a calling card call

- 1 Enter the phone number, including any prefix (such as 0 or 1) that your calling card may require. See your calling card for instructions.
- 2 Press and hold **Call** until your phone displays **Card call**.
- 3 Your phone displays **Wait for tone**, then press **OK**. Wait for the tone, then press **OK**.
- 4 Your phone displays **Wait for tone**, press **OK** again. Wait for the tone, then press **OK**.


This procedure may not work with all calling cards. Follow the directions on the back of your calling card or contact your long distance company for more information.

Work with two phone lines

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

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

To switch from line 1 to line 2:

- 1 At the Start screen, press and hold  # .

Change the phone line? appears.

- 2 Press OK.

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

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

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

• USE VOICE DIALING

Your phone's voice dialing feature lets you dial a number using your voice. Before using this feature, you need to create entries in the phone book so you can associate a "voice tag" with the name you wish to dial.

Add a voice tag to a phone book entry

To create entries in the phone book, see "Save names and numbers" on page 30. By this time you should be familiar with the phone book. If not, see "Phone book" on page 30.

- 1 At the Start screen, press **Menu** and then **Select**.

- 2 Scroll to **Voice tags** and press **Select**.
- 3 When **Add voice tag** appears highlighted, press **Select**.
- 4 Scroll to the phone book entry that you want to give a voice tag and press **Add**.
- 5 When **Press start, then speak after tone** appears, hold the phone up to your ear and press **Start**. You hear several beeps, and **Please speak now** appears.
- 6 Speak clearly into the microphone.



Tip: Do NOT press **Quit** when you're finished.

**Press Start, then
speak after tone**

Start

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

If recording is not successful, your phone displays **Voice system error**.

Press **Add**, and repeat steps 5 - 6.

**Voice
system
error**




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

Notes about voice tags

- Voice tags are not language dependent. Any clearly spoken word or phrase can serve as a voice tag.
- It's easier for the phone to differentiate between long, unique voice tags. For example you might want to record a person's first and last names rather than only the first name.
- Voice tags must be shorter than 2 seconds.

- Voice tags are sensitive to background noise. For best results, record them in a quiet environment.
- If you delete a name, any associated voice tag is also deleted.
- The recording process stops automatically. Pressing **Quit** aborts the recording attempt.
- If you try to record a voice tag, and **Voice tag memory full** appears, you must erase a current voice tag to make room for the new one.
- If your phone is in the Silent or Discreet profiles you will not hear the beeps when you record a voice tag.

Make a call using voice recognition

- 1 Hold the phone up to your ear, then press and hold **Menu**.
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. Try again?** appears.
- 3 Press **Yes** to try again.
OR
Press  to cancel and return to the Start screen.



Tip: 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.

Play back a voice tag

- 1 Press **Menu** and then **Select**.
- 2 Scroll to **Voice tags** and press **Select**.

- 3 Scroll to **Playback** and press **Select**.
- 4 Scroll to the name with the voice tag you want and press **Playback**.

Change a voice tag

- 1 Press **Menu** and then **Select**.
- 2 Scroll to **Voice tags** and press **Select**.
- 3 Scroll to **Change** and press **Select**.
- 4 Scroll to the name with the voice tag you want to change and press **Change**.
- 5 When **Press start, then speak after tone appears**, hold the phone up to your ear and press **Start**.



Note: Refer to "Notes about voice tags" on page 54.

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



Erase a voice tag

- 1 Press **Menu** and then **Select**.
- 2 Scroll to **Voice tags** and press **Select**.
- 3 Scroll to **Erase** and press **Select**.
- 4 Scroll to the name with the voice tag you want to erase and press **Erase**.
- 5 When **Erase voice tag?** appears, press **OK** to erase the voice tag.
- 6 The phone erases the voice tag and **Voice tag erased** appears.



• 1-TOUCH DIALING

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



Tip: The first nine numbers stored in SIM memory are automatically stored in keys 2 through 9 as 1-touch dial numbers. You can assign new numbers to the keys, but the names and numbers must be already stored in the phone book. Refer to "Phone book" on page 30 for more information.



Key 1 can be set up 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 dial key

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

Key 2 appears along with the first phone number that is saved in SIM Memory.

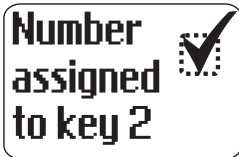
- 3 If you want to assign this phone book entry to Key 2, press **Assign**.
OR

Press  or  to choose another key, then press **Assign**.

The list of names saved in the phone book appears.

- 4 Scroll to the phone book entry you want to assign to the key and press **OK**.
A confirmation message appears.

See "Change 1-touch dialing numbers" below to edit the number if needed.




Call a 1-touch dial number

- Press and hold the appropriate key, or press the key then press **Call**. The phone dials the number.


Change 1-touch dialing numbers

- 1 Press **Menu** and then **Select**.
- 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 Scroll to the new name you want to assign to this key and press **OK**.

Erase 1-touch dialing numbers

- 1 Press **Menu** and then **Select**.
- 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 or  to return to the list of 1-touch numbers.

• MAKE AN INTERNATIONAL CALL

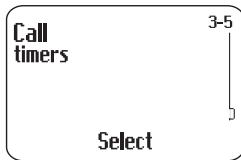
- 1 Press  twice to enter the international dialing prefix (+).
- 2 Enter the country code, area code, and phone number, and press **Call**.

• CALL TIMERS

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

If you have two phone lines

If you have subscribed to a second phone line (see "Work with two phone lines" on page 53), a separate call timer is available for each of your phone lines. 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 3 5**.

Call timers appears briefly, then **Last call** appears along with the duration of your last call.

- 2 Scroll to display the following options:
 - **All calls.....**Shows the total duration of all calls since the last reset.
 - **Received calls.....**Shows the total duration of all received calls.
 - **Dialed calls.....**Shows the total duration of all dialed calls.
 - **Clear timers.....**Resets all timers to zero.

Reset call timers to 0

- 1 Press **Menu 3 5 5**.

Clear timers appears.

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

Show call timer during calls

- 1 Press **Menu 3 5**.
- 2 Scroll to **Last call**, then press **Details**.
Current call is displayed.
- 3 Press **Select**.
- 4 Scroll to **On**, then press **OK**.

During a call, the amount of time spent in that call is displayed.



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

12 Customizing your phone

• PROFILES

Profiles let you personalize your phone's sound and display settings. Each profile contains settings for:

- ringing tone
- ringing volume
- ringing options
- message alert tone
- keypad tones
- warning tones
- vibrating alert
- screen saver
- rename



12

Just pick the profile that suits you: Normal, Silent, Discreet, or Loud. Or download a profile from the Internet and place it in "empty."

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

Select a profile

- 1 Press **Menu 4**.
- 2 Scroll to the profile you want to use (for example, **Discreet**) and press **Select**.
Select appears highlighted.
- 3 Press **OK**.

Customize the profile

- 1 Press **Menu 4**.
- 2 Scroll to the profile you want to customize (for example, **Discreet**).
- 3 Press **Select**.
- 4 Scroll to **Customize**, then press **OK**.
The customize options appear.

Profile =

Ringing tone
Ringing volume
Ringing options
Message alert tone
Keypad tones
Warning tones
Vibrating alert
Screen saver
Rename

RINGING TONE

Your phone has up to 56 ringing tones available:

- 35 pre-programmed tones
- 20 slots for downloaded tones
- One slot for your "Own tone" created with Composer. (See "Ringing tone composer" on page 113.)

- 1 Press **Menu 4**.
- 2 Scroll to the profile for which you want to set the ringing tones, and press **Select**.
- 3 Scroll to **Customize** and press **OK**.
- 4 When **Ringing tone** appears, press **Select**.
- 5 Scroll to the ringing tone you want, then pause to hear a sample of the tone.
- 6 Press **OK** to select the tone or continue scrolling to select a different tone.



Tip: If you created a tone with Composer, select **Own tone**. To download a tone from the Internet, see "Download ringing tones++" on page 112.

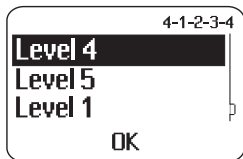
RINGING VOLUME

This feature sets the ringing volume for incoming voice calls and message alert tones.

- 1 Press **Menu 4**.
- 2 Scroll to the profile whose ringing volume you want to set, then press **Select**.
- 3 Scroll to **Customize**, then press **OK**.
- 4 Scroll to **Ringing volume**, then press **Select**.
- 5 Scroll to the volume level you wish to use, then pause to hear a sample of the volume.
- 6 Press **OK** to select the volume or continue scrolling to select a different volume.



Note: If you select Level 5, you see a note stating **VERY LOUD RINGING**. Press **OK** to confirm the setting. Also when you select Level 5, the phone starts ringing at Level 4, then ascends to Level 5.



RINGING OPTIONS

Choose how a profile notifies you of an incoming call.


- 1 Scroll to one of the following, and press **OK**.

Ring: The phone rings.

Ascending: The ringing volume starts low and increases with successive rings.

Ring once: The phone rings once.

Beep once: The phone makes a short beep.

Silent: The phone sounds no tone. Keypad tones, warning tones, and message alert tones are turned off, and the  icon appears at the top of the screen.

MESSAGE ALERT TONE

This option sets the tone your phone makes when you get a text message.

- 1 Press **Menu 4**.
- 2 Scroll to the profile whose message alert tone you want to set, then press **Select**. Scroll to **Customize**, then press **OK**.
- 3 Scroll to **Message alert tone**, then press **Select**.
- 4 Scroll through the tones until you hear one you like, then press **OK**.

KEYPAD TONES

This option sets the volume of the tone you hear when you press the phone's keys.

- 1 Press **Menu 4**.
- 2 Scroll to the profile whose keypad tones you want to set, then press **Select**.
- 3 Scroll to **Customize**, then press **OK**.
- 4 Scroll to **Keypad tones**, then press **Select**.
- 5 Scroll through the choices until you hear the volume level you want, then press **OK**.

WARNING TONES

Warning tones are sounds your phone makes for conditions such as errors, confirmations, power on, battery low, and recharge battery.

- 1 Press **Menu 4**.
- 2 Scroll to the profile for which you want to set the warning tones, then press **Select**.
- 3 Scroll to **Customize** and press **OK**.
- 4 Scroll to **Warning tones**, then press **Select**.
- 5 Scroll to **On** or **Off**, then press **OK**.

VIBRATING ALERT

Your phone has an internal vibrating mechanism. No special battery is needed to make the phone vibrate when someone calls you.

- 1 Press **Menu 4**.
- 2 Scroll to the profile for which you want to set the vibrating alert, and press **Select**.
- 3 Highlight **Customize** and press **OK**.
- 4 Scroll to **Vibrating alert**, then press **Select**.
- 5 Scroll to **On** or **Off** and press **OK**.

If you choose **On**, your phone vibrates even if you have set **Ringing options** to **Silent** (see page 62).

SCREEN SAVER


Choose one of 14 pictures for your display. You can choose the timeout duration so the picture appears after a pause of only 5 seconds or as long as 10 minutes. Then, the picture stays visible until you press any key. Check with your service provider for details.

- All pictures are available for use as picture messages. See "Picture messages" on page 99.
- Pictures 9 through 14 are animated. You can also send them as a non-animated picture that's part of a picture message.
- You can replace pictures 9 through 14 with other animated pictures downloaded from the internet via WAP.



Activate Screen saver

- 1 Press **Menu 4**.
- 2 Scroll to the profile whose screen saver you want to set, then press **Select**.
- 3 Scroll to **Customize**, then press **OK**.
- 4 Scroll to **Screen saver**, then press **Select**.
- 5 Scroll to **On** and press **OK**.




Choose a Screen saver picture

- 1 Follow steps 1 through 4 above.
- 2 Scroll to **Screen saver** and press **OK**.
A picture appears. To use this picture, press **Use**.
A confirmation message appears. Press and hold  to return to the start screen.


OR

Press  or  to select another picture.

Change a Screen saver picture

- 1 Follow steps 1 - 4 in "Activate Screen saver."
- 2 Scroll to **Screen saver** and press **Select**.
- 3 Press  or  to see other pictures.
- 4 Press **Use** to select the new picture.
Done appears as confirmation, then **Screen saver** appears highlighted.
- 5 Press and hold  to return to the start screen.

Set the timeout

- 1 Press **Menu 4**.
- 2 Scroll to the profile whose screen saver you want to set, then press **Select**.
- 3 Scroll to **Customize**, then press **OK**.
- 4 Scroll to **Screen saver**, then press **Select**.
- 5 Scroll to **Timeout** and press **OK**.
- 6 Scroll to the time you want (from 5 seconds to 10 minutes) and press **OK**.
Timeout selected appears.
- 7 Press and hold  to return to the Start screen.

Rename a profile

- 1 Press **Menu 4**.
- 2 Scroll to the profile you want to rename and press **Select**.
- 3 Scroll to **Customize** and press **OK**.
- 4 Scroll to **Rename** and press **Select**.
- 5 Enter the new profile name, then press **OK**.

• RESTORE FACTORY SETTINGS

You can use **Menu 5 5 9** to reset some of the phone settings to their original values. You must enter the security code.



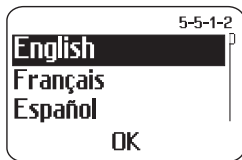
Note: Restoring factory settings does not erase your phone book, language settings, counters, or game scores. However, it does erase all customized settings you may have entered.

• CHOOSE THE DISPLAY LANGUAGE

You can choose your phone's display language.

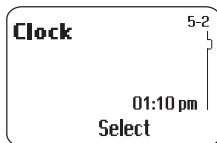
- 1 Press **Menu 5 5 1**.
 - 2 Scroll to the language you want, then press **OK**.
- OR

Scroll to **Automatic** and press **OK**. The language will be set automatically by the SIM card.



• 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 "Alarm clock" on page 107).



Set the clock

- 1 Press **Menu** 5 2 2.
- 2 Enter the current time, using two digits for both hours and minutes.
OR
Enter hours and minutes in 24-hour format.
- 3 Press **OK**.
- 4 Select **am** or **pm** and press **OK**.



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 **mm/dd/yyyy** format and press **OK**.

Select the time format

- 1 Press **Menu** 5 2 3.
- 2 Scroll to **24-hour** or **am/pm**.
- 3 Press **OK**.

Display the clock

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

- 1 Press **Menu** 5 2 1.
Either **Clock hidden** or **Clock shown** appears as confirmation, depending on the current setting.
- 2 Press and hold  to return to the Start screen.

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.

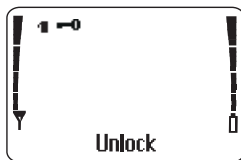
Press **Menu** 5 3 and choose:

- **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.

13 Security features



• 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).



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

Lock/unlock the keys

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



Note: Connecting your phone to a car kit automatically disables Keyguard. Also, Keyguard is automatically disabled during an incoming call, when the alarm is sounding, or when dialing an emergency number (such as 112 or 911).

13

• PIN AND PUK 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 entries for call timers, calling card, phone book, and phone security.

Code	Purpose	For more information
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 69. and See "PUK codes" on page 70.
PIN2 code	Required by several phone features.	See entries for fixed dialing, and PIN and PIN2 codes.
System password	Required by the Restrict Calls feature.	See "Restricting calls++" on page 72.

PIN codes

The PIN (Personal Identity Number) 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.

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

- Enter the code then press **OK**.

CHANGE YOUR PIN OR PIN2 CODE

The default PIN code is 1234, and the default PIN2 code is 5678. You can change your PIN or PIN2 code to any 4- to 8-digit number.

- 1 Press **Menu** 5 6 5.

When **Change PIN code** appears, press **Select**.



Note: If SIM card security is not set to on, you'll be prompted to activate it. See "Set SIM card security" below for details.

- 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**.



Tip: 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 three times in a row, the PIN code is blocked. To unblock the PIN code, see "PUK codes" on page 70.

SET SIM CARD SECURITY

This feature sets your phone to ask for the PIN code each time the phone is switched on and prevents unauthorized use of your phone.

- 1 Press **Menu** 5 6 1.
- 2 When **Enter PIN code** appears, enter the PIN code supplied by your service provider, and press **OK**.
- 3 Press (up or down) to highlight **On** and press **OK**.

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




Caution: If you enter the wrong PIN or PIN2 code three times in a row, the SIM card is automatically blocked or you cannot activate the function. See "PUK codes" below to unblock the codes.

PUK codes

The PUK (Personal Unblocking Key) and PUK2 codes are 4- to 8-digit codes obtained from your service provider. The PUK code unblocks a blocked PIN code, and the PUK2 code unblocks a blocked PIN2 code.

UNBLOCK A PIN CODE

- 1 Press **Menu** 5 6 5, then press **Select**.
Change PIN code appears.
- 2 To unblock the PIN2 code, press  to select **Change PIN2 code**.
- 3 Press **Select**.
PIN code blocked appears.
- 4 Enter the PUK code, then press **OK**.



Caution: If you enter a wrong PUK code ten times in a row, the SIM card becomes invalid and you must contact your service provider for a new card.

- 5 Enter the new PIN code, then press **OK**.
- 6 Enter the new PIN code again to verify, and press **OK**.



Caution: You cannot change the PUK or PUK2 code, so keep a record of them in a safe place. If you lose them, contact your service provider.

If you try to change the PIN2 code, and you enter a wrong PUK2 code ten times in succession, you can't use functions requiring the PIN2 code. Contact your service provider for a new SIM card.

• SECURITY CODE

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 five times in a row, the phone will not accept the correct code for 5 minutes.

The default security code that comes with your phone is 12345. To change the security code:

- 1 Press **Menu 5 6 5**, then press **Select**.
- 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**.

Keep the code secret and in a safe place, separate from the phone.

• 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. Check with your service provider for more information.



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



Note: When fixed dialing is set to on, calls may be possible to certain emergency numbers in some networks (such as 911 or other official emergency numbers).

Turn fixed dialing on or off

- 1 Press **Menu 5 6 4**.
- 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 5 6 4**.
- 2 Scroll to **Numbers**, then press **OK**.
- 3 Scroll to **Add**, then press **Select**.
- 4 Enter your PIN2 code and press **OK**.
- 5 Enter a name to go with the number, then press **OK**.
- 6 Enter the phone number you want to allow to be dialed, then press **OK**.

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

• RESTRICTING CALLS⁺⁺

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



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

Turn on call restrictions

- 1 Press **Menu 5 6 3**.
- 2 Scroll through the types of calls you can restrict, and press **Select** when you see the one you want.

Outgoing calls: Calls cannot be made.

International calls: Calls cannot be made to foreign countries.

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

Incoming calls: Calls cannot be received.

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

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



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

- 3 Scroll to one of the following options:

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

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

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

- 4 Press **OK**.

For more information about your restriction password, see "Restricting calls++" on page 72.

• SET UP A CLOSED USER GROUP++

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



Note: When calls are limited to closed user groups, calls may be possible to certain emergency numbers in some networks (such as 911 or other official emergency number).

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** 5 5 4.
- 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.

15 WAP Services⁺⁺



Important: Check with your service provider for availability of WAP services.

WAP (short for Wireless Application Protocol) is to mobile devices what WWW (world wide web) is to desktop computers. The mobile community began developing WAP several years ago to give mobile device users access to the internet. Today, most WAP sites are made up of text and hyperlinks, with some capable of text input and selection items in a list. Some pages even contain low-resolution graphics. Because your service provider and others are free to design WAP sites as they choose, each site can vary almost as much as a web page on the Internet.

• WAP SETTINGS



Note: Depending on your network or service provider's WAP settings, some of the following menu items may not be accessible.

It shouldn't be necessary to manually configure your phone for browsing. Normally your service provider will modify these settings once you've subscribed to this feature. However, some network operators or service providers may allow you to set up the phone for browsing.


The connection settings may come as a text message. Or, you may be able to enter the settings manually. The WAP settings may be available, for example, on the Web site of the network operator or service provider. For appropriate settings, contact your network operator or service provider.

Save settings as a text message

- 1 When you receive the settings, **Service settings received** appears.
- 2 Press **Options**, scroll to **Save** and press **Select**.


Enter the settings manually

- 1 Press **Menu 11**, scroll to **Settings**, and press **Select**.
Connection settings appears.

- 2 Press **Select** and scroll to a set of connection settings.
For example: **Set 1**.
- 3 Press **Options** and scroll to **Edit**.
- 4 Scroll to each of the settings and enter information as shown below. Make all the required settings one by one. For appropriate settings, contact your network operator or service provider.
 - **Homepage:** Enter the homepage address of the WAP service you want to use and press **OK**.
 - **Connection type:** Scroll to **Continuous** or **Temporary** and press **Select**.
 - **Connection security:** Scroll to **On** or **Off** and press **Select**.
When the connection security is on, the phone tries to use a secure connection with the WAP service. If a secure connection is not available, the connection will not be made. If you want to connect anyway with a non-secure connection, set the connection security to **Off**.
 - **Dial-up number:** Enter the number and press **OK**.
 - **IP address:** Enter the address and press **OK**.
 - **Authentication type:** Scroll to **Secure** or **Normal** and press **Select**.
 - **Data call type:** Scroll to **Analog** or **ISDN** and press **Select**.
 - **User name:** Enter the user name and password and press **OK**.
 - **Password:** Enter your password and press **OK**.
- 5 After you have made all the required settings, you can change the set's name. Press  and then **Options**, scroll to **Rename**, and press **Select**. Enter the name and press **OK**.

Activate the settings

- 1 Press **Menu 11**, scroll to **Settings** and press **Select**.
Connection settings appears.
- 2 Press **Select** and scroll to the appropriate set. For example: **Set 1**

- 3 Press **Select**.
Activate appears highlighted.
- 4 Press **Select**.
A confirmation message appears,: **Selected set: Set 1**. Then the phone returns to the Connection settings menu.
- 5 Press and hold  to return to the Start screen.
The settings are now saved and you can connect to the WAP service.

• CONNECT TO THE WAP SERVICE

It's likely that your service provider has created their own home page and configured your browser to go to this page when you press **Home** on the browser's menu. Once at your service provider's home page, you'll find links to a number of other WAP sites.



Note: Some service providers may have customized the Services menu and/or WAP page's Options menu. Please contact your service provider for more information, in the event that any of the connection options are unavailable.

There are three ways to make a connection.

Home page

- Press **Menu 11**, scroll to **Home** and press **Select**.
The phone automatically begins dialing your service provider.

Bookmarks

- Press **Menu 11**, scroll to **Bookmarks** and press **Select**. For more information, see "Save and manage bookmarks" on page 82.

Enter the address of the WAP service

- Press **Menu 11**, scroll to **Go to address**, and press **Select**. Enter the WAP services address and press **OK**.
For example: www.nokia.com

• BROWSE PAGES IN THE WAP SERVICE

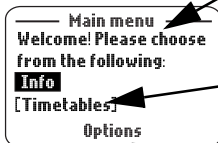
Now you can start browsing (or looking through) the WAP services pages. The function of the phone keys may vary between WAP service providers. Follow directions as they appear in the display. For more information, contact your WAP service provider.

Navigating a WAP page

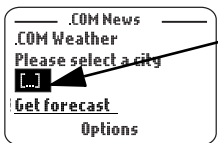
Elements common to most pages:







- **Header line** - shows the current location.
- **Active hyperlink** - highlighted and awaiting a press of the **1** or **3** keys.
- **Hyperlink** - used to navigate to other pages or sites. Scroll to select the link and press **1** or **3**.



- **Text** - use **2** or **4** to scroll through the text. The cursor will automatically jump to the next hyperlink to activate it.
- **Selection list** - identified by text in brackets. Press **1** or **3** on this link to display additional choices or links.
- **Options** - Displays a page's options menu and/or the browser menu. Press **C** to go back to the previous page.



- **Data entry field** - identified by ellipse in brackets [. . .]. This field is used when specific user input is required (example: city name, stock symbol, airline name or flight number, etc.). To edit this field:

- 1 Highlight the data entry field and press  or .
- 2 Enter the text requested by the data entry field (for example: **Miami**) and press **OK**.
The text you entered now appears between the brackets.
- 3 Scroll to the link that requires an action (For example: **get forecast?**) and press  or .







The browser menu

- 1 At the Start screen, press **Menu** 11.
- 2 Scroll to any of the following menu items and press **Select**.
 - **Home**: Starts the browser and takes you to your service provider's home page.
 - **Bookmarks**: Displays a list of all saved bookmarks.
 - **Service inbox**: Contains messages received through WAP.
 - **Settings**: From here you can modify your connection settings, appearance settings, and Security certificate more.
 - **Go to address**: Allows you to enter the address of your choice.
 - **Clear cache**: Empties the browser's temporary memory and frees up space. It's advisable to empty your cache at the end of each session.








Note: Some service providers may have customized the Services menu and/or WAP page's Options menu. Please contact your service provider for more information, in the event that any of the above menu options are unavailable.

Use the keys

- Use  or  to browse the WAP page and highlight the desired item. The item can be, for example, underlined text in a "link."
- Press  or  to select a highlighted item.

The "world" icon rotates while the page downloads from the WAP server.

- Press  to go back to the WAP page that you viewed previously.
- Press and hold  to disconnect from the WAP service.
- Press  and  to enter letters and numbers and  to enter special characters.
- Press **Options** to display the following options. Scroll to the option you want and press **Select**.

Home: Takes you back to the homepage of the WAP service.

Reload: Refreshes the WAP page.

Select: Selects a link or any other highlighted item on the WAP page.

Back: Takes you back to the WAP page that you previously viewed.

Appear. sett.: You can wrap the text and hide the images on the WAP page. For details, see "Adjust the appearance settings of WAP pages" on page 82.

Bookmarks: Helps you manage bookmarks. For details, see "Save and manage bookmarks" on page 82.

Service inbox: Contains messages received through WAP.

Use number: Copies a phone number from the current WAP page to your phone for saving or calling and then ends the WAP session. If the WAP page has several numbers, you can select the one you want.

Go to address: Connect to any WAP page by entering the WAP address and pressing **OK**.

Clear cache: Empties the cache memory of the phone. See "Empty the cache memory" on page 83.

Security info: Shows if the connection is secure.

Exit: Quits browsing and ends the call.

Handle a call while browsing




Note: If you receive a call while browsing, you must end the WAP connection to answer the call.

When the phone receives a call, the message **waiting** and the incoming caller's phone number appears.

For example: **waiting 8885551232**.

You have about 20 seconds to answer the call. If you do not answer, the call may be forwarded to voice mail or the caller may be asked to try again later.

ANSWER THE CALL:

- 1 Press and hold  to end the WAP connection.

Calling flashes in the display, and the incoming caller's phone number appears again.

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



Note: To answer the call and keep the last WAP page in view, press **Options**, scroll to **End active call**, and press **Select**. **Call ended** appears, followed by the last WAP page you were viewing when you received the call.

IGNORE THE CALL:

Take no action and continue browsing.



Note: You can set up call forwarding to send the call to your voice mailbox. See "Call forwarding++" on page 48.

When you end your WAP connection, **Missed call** appears. Press **List** to see details about the missed call. See "Check for missed calls" on page 36 for more information.

RETURN TO WAP SERVICES

Connect to WAP services as described in "Connect to the WAP service" on page 77.

End the WAP connection

- 1 Press **Options**, scroll to **Exit** and press **Select**.
Quit browsing? appears.
- 2 Press **Yes** to end the session.

Adjust the appearance settings of WAP pages


- 1 Press **Menu 11**.
- 2 Scroll to **Settings** and press **Select**.
- 3 Scroll to **Appearance settings** and press **Select**.

Text wrapping appears.

The text wrapping feature makes text lines "wrap" to the next line if they're too long for one line.

- 4 Press **Select** and choose **Yes** or **No**, then scroll to **Show images**.

Set **Show Images** to show pictures appearing on WAP pages. This may speed up the browsing of WAP pages that contain a lot of pictures.

- 5 Press and hold  to return to the Start screen.

Save and manage bookmarks

Bookmarks are shortcuts to WAP pages. You can create a new bookmark even without being connected to the WAP service.



Note: Make sure the currently active set of connection settings can be used with the WAP page you want. If the bookmark does not work, **Change service settings** may appear. Change the connection settings and try again.

WITH NO WAP CONNECTION

- 1 Press **Menu 11**. When the **Services Options** menu appears, scroll to **Bookmarks** and press **Select**.
If there are no bookmarks stored, **(no bookmks)** appears.
- 2 Press **Options**.
Add bookmark appears.

- 3 Enter the address of the WAP page and press **OK**.
- 4 Write a name for the WAP page and press **OK**.

DURING A WAP CONNECTION

Use the Save bookmark function to save the current WAP page as a bookmark.

- 1 Press **Options**, scroll to **Bookmarks** and press **Select**.
If there are no bookmarks stored, **(no bookmks)** appears.
- 2 Press **Options** and scroll to **Save bookmk.** and press **Select**.
Bookmark saved appears.

USE OTHER BOOKMARK FUNCTIONS

- **Go to:** Makes a connection to the WAP page intended for that bookmark.
- **Edit:** Lets you make changes as needed to a bookmark.
- **Erase:** Deletes the bookmark.
- **Send bookmk.:** Use this feature to send a bookmark to another WAP-enabled device.
- **Add bookmark:** Let's you manually enter a new bookmark for later use.
- **Save bookmk.:** Places a bookmark in the phone's memory for the web page currently in view.

Empty the cache memory

Your phone temporarily stores information received during a WAP connection, including confidential information requiring passwords. You can erase this information from your phone to prevent unauthorized access.

- 1 Press **Menu 11**, and scroll to **Clear cache**.
- 2 Press **Select**.
Cache cleared appears.

Security certificates

For some WAP service such as banking services, you need a security certificate. The security certificate helps you improve the security of the connection between your phone and a WAP gateway or server.



Note: You must set the Connection security option to On.

You can download the certificate from a WAP page and then view, save, or delete it. If you save it, the certificate is stored in your phone. Then the phone uses the certificate to verify the identity of that WAP server when you return to it. The phone alerts you if the identity of a WAP server or gateway can not be verified, or if you don't have the correct certificate stored in your phone.



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

TO VIEW THE LIST OF SECURITY CERTIFICATES:

- 1 Press **Menu 11** and scroll to **Settings**.
- 2 Press **Select** and scroll to **Security certificates**.
- 3 Press **Select**.

If the security icon appears during a WAP connection, it indicates that the data transmission between the phone and the WAP gateway or server is encrypted and secure. However, the icon does not indicate that the data transmission between the gateway and the content server is secure. It's up to the service provider to secure the data transmission between the gateway and the content server.

16 Messages++

The message network service allows you to send short text messages to any device that can receive this information, such as computers, fax machines, and pagers.




• SAVE MESSAGE SETTINGS

Before you can send and receive messages, you must:

- Have a text or email message subscription through your service provider.
- Know your message center number (check with service provider).
- Save your message center number in your phone.

Save your message center number

 **Note:** Get this number from your wireless service provider.

- 1 Press Menu 2 7.

The **Messages settings** menu appears, followed by the settings programmed in your phone.

- 2 Scroll to the set of message settings you want to use (the first one is the default), then press **Select**.

Message center number appears.

- 3 Press **Select**.
- 4 Enter your message center number, then press **OK**.



Set the message mode

You must specify the way your phone sends messages: text messages, faxes, pages, or E-mail messages.

- 1 Press **Menu 2 7**.
- 2 Scroll to the set you want to change the settings for, then press **Select**.
- 3 Scroll to **Messages sent as** and press **Select**.
- 4 Scroll to **Text, Fax, Page, or E-mail**, then press **OK**. (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.)

Set message validity

Message validity is a network feature that determines the amount of time that your service provider's message center attempts to deliver a message.

- 1 Press **Menu 2 7**.
- 2 Scroll to the set you want to change the settings for, then press **Select**.
- 3 Scroll to **Message Validity** and press **Select**.
- 4 Choose a time, then press **OK**.

• WRITING MESSAGES

Be sure to set message mode before typing in message.


16

Using standard text input

Be sure to set message mode as above. When you select this mode, the **ABC** icon appears as visual confirmation.

- 1 Find the key with the letter you want to enter.
- 2 Press it as many times as needed for the letter to appear on the screen.

For example, to enter the name John:






Press  J
 Press    O
 Press   H
 Press   N

See "Standard text input" on page 27. for more information.

Using predictive text input

Predictive text input is the default mode. This method allows you to write text using a built-in dictionary. You can also add new words to the dictionary. With predictive text input, you only need to press each number key once for each letter.

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



















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



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.

Predictive text input tools

 - 	Use for word entry. Press each key only once for each letter.
	Press to view the next matching word if the underlined word is not the word you intended.
Spell	Press to add a new word to the dictionary.
	Press once to accept a word and add a space.
	Press and hold to enter a number.  indicates that you can input numbers.
	Press to change the character case.  indicates uppercase.  indicates lowercase.
	Press to select predictive input or standard text input.  and  indicate standard text input.  ,  , and  indicate predictive text input.
	Press once to delete the character to the left of the cursor. Press and hold to clear the entire screen.
	Press once to add a punctuation mark. To change the underlined symbol, press  repeatedly until the desired symbol appears.
459/1	Character counter. Shows the maximum number of characters available (up to 459, depending on the service provider). Appears in the top right corner of the screen and counts down for each character added.

SELECT A LANGUAGE AND TURN ON PREDICTIVE TEXT INPUT


- 1 Press Menu 2.
- 2 Scroll to Write messages, then press Select.
- 3 Press Options, scroll to Dictionary, then press OK.
- 4 Scroll to the language you want, then press OK.
Dictionary activated appears.

TURN OFF PREDICTIVE TEXT INPUT

- To switch from predictive text input to traditional text input:

- 1 Repeat steps 1 through 3 above.
- 2 Scroll to Dictionary off and press Select.

OR






- While writing the message, press  to switch between predictive text input and standard text input.

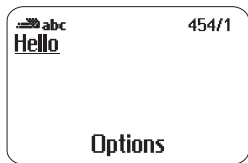
WRITE WITH PREDICTIVE TEXT INPUT

- 1 Press each key once for each letter.

For example, to write "Hello" press

 ,  ,  ,  ,  .

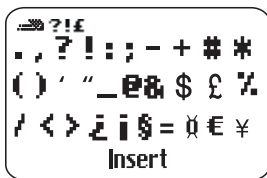
- Do not pay attention to the word on the screen until you have finished writing the word.
- Refer to the character counter in the top right of the screen. The counter shows how many characters are available.
- Press  to delete a character.
- Press and hold  to clear the entire screen.
- Press  to change the character case.
- Press and hold the respective number key to insert a number.
- Press  to insert a punctuation mark. If it is not correct, press  repeatedly to find the desired punctuation mark.



- To insert a symbol, press and hold . The symbol screen appears. Press or to move the cursor left or right to select the desired symbol and press **Insert**.



Tip: Press to move the cursor between rows



- When you have finished writing, check the underlined word to see if it is the word you intended to write.

If the word is correct

- Insert a punctuation mark, if needed. Then press to confirm the word, enter a space, and begin writing the next word.

If the word is not correct

- Press repeatedly until the desired word appears, then press to confirm the word.

OR

- Press **Options**, scroll to **Matches**, then press **OK**.
- Scroll to the correct word and press **Use**.
- Press to confirm the word, enter a space, and begin writing the next word.
- Start writing the next word.



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

If the ? character appears after the word the word you intended to write is not in the dictionary's match list.

- Press **Spell**.
- Enter the word using standard text input (see "Standard text input" on page 27).
- Press **OK** to save the word.






Note: If you need to exit while writing the message be sure to save it first (see "Save messages in the outbox" on page 94). Later, press **Menu 2 2** to return and finish writing the message. If you turn off the phone without saving the message, the message will be lost.

ADD NEW WORDS TO THE DICTIONARY'S MATCH LIST

You can add new words to the dictionary.

- 1 Press **Menu 2 3**.
Write messages appears followed by a blank message screen.
- 2 Press **Options** and scroll to **Spell mode**.
- 3 Press **OK** and use standard text input (see "Standard text input" on page 27) to insert the word.
- 4 Press **OK**.

INSERT NUMBERS

- 1 To add a number to the message, press and hold  until  appears.
- 2 Key in the desired numbers, then press and hold  to return to **ABC** mode.




INSERT SMILEYS

A smiley is a symbol composed of punctuation characters that indicate how an email message should be interpreted. For example, this smiley :-)) represents a person who is smiling. It usually means that the message is meant as a joke and shouldn't be taken seriously.


To insert smileys in your message:

- 1 Press **Options**.
- 2 Scroll to **Insert smiley** and press **OK**.
A list of five smileys appears.
- 3 Scroll to the smiley you want and press **Select**.



To create a smiley:

- 1 Press Menu 2 6.
- 2 Scroll to one of the spaces labeled **(empty)** and press **Read**.
The word **(empty)** appears at the top of the screen.
- 3 Press **Options**.
Edit appears highlighted
- 4 Press **Select**.
A blank message screen appears.
- 5 Press and hold  until the special characters screen appears.
- 6 Press  or  to highlight the first character for your smiley and press **Use**.
The character appears in the message screen.
- 7 Continue selecting characters for your smiley. When you're finished, press **Options** and scroll to **Save**.
- 8 Press **OK** to save your smiley.
Your smiley now appears in the list with the others.

INSERT SYMBOLS

- 1 Press and  hold until the symbol screen appears.
OR
Press **Options** and scroll to **Insert symbol**.
- 2 Select the desired symbol and press **Insert**.

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.

Use Templates

The Nokia 3395 has five preset messages, or "templates," that you can use for writing a message.

- 1 Press **Menu 2 3**.

Write messages appears followed by an open message screen.

- 2 Press **Options**, scroll to **Templates**, and press **OK**.
- 3 Scroll to the template you want and press **Select**.
- 4 When the template appears you can write the remainder of the message as appropriate.

CREATE A TEMPLATE

You can create up to three templates.

- 1 Press **Menu 2 5**.

A list of current templates appears.

- 2 Scroll to one of the templates labeled **(empty)** and press **Read**.
- 3 Press **Options**, and when **Edit** appears highlighted, press **Select**.
- 4 Write a message of up to 40 characters.
- 5 Press **Options** and scroll to **Save**.
- 6 Press **OK**.


Template saved appears.

EDIT A TEMPLATE

- 1 Press **Menu 2 5**.

The template list appears.

- 2 Scroll to the template you want to edit and press **Read**.
- 3 Press **Options**.
When **Edit** appears highlighted, press **Select**.
- 4 Edit the template.
When you're finished, press **Options**.

- 5 Scroll to **Save** and press **OK**.
- 6 Press  to return to the Start screen.

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 it.

- 1 While writing the message, press **Options**.
- 2 Scroll to **Save**, then press **OK**.

• SEND THE MESSAGE

Text messages

- 1 Press **Menu** 2 3.

Write messages appears briefly, followed by the message screen.

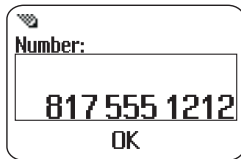
- 2 Enter a message. (The number of available characters appears in the top right corner of the screen.)
- 3 Once you have finished writing, press **Options**.

When **Send** appears highlighted, press **OK**.

- 4 When the number block appears, enter or recall the recipient's phone number, then press **OK**.



Tip: You may need to add a 1 to the number. Check with your service provider for details.



Sending message appears.

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

E-mail messages

- 1 Repeat steps 1–3 on previous page.
- 2 When the **E-mail address** block appears, enter the recipient's e-mail address and press **OK**.

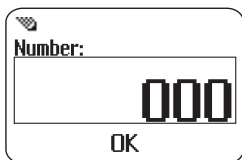


Tip: To enter multiple e-mail addresses, separate each address with a comma, but no space.





- 3 When the **Number** block appears, enter the E-mail number code for your service provider and press **OK**.
- 4 **Sending message** appears.

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



• RESEND A MESSAGE FROM THE OUTBOX

Messages in the outbox have one of two icons in front of them. The  icon in front of a message heading shows that you have attempted to send the message to the text message center. The  icon shows that you have not yet tried to send the message.

- 1 Press **Menu 2 2**.
- 2 Scroll to the message, then press **Read**.
- 3 Press **Options**.
- 4 Scroll to **Forward** and press **OK**.
- 5 Press **Options**.
Send appears already highlighted.
- 6 Press **OK**.
- 7 Enter the recipient's phone number or e-mail address and press **OK**.




Note: If you're sending an email, the **Number** block appears. Enter the E-mail number code for your service provider and press **OK**.

Sending message appears.

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

• READ MESSAGES

Read new messages now


When you receive a message, the phone displays **Message received** and the  indicator, and makes a sound (depending on the "Message alert tone"; see page 63).


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

This takes you to the Inbox, with the new message selected.



- 2 Press **Read** again to read the message.

Read new messages later

When you receive a message, the phone displays **Message received** and the  indicator, and makes a sound (depending on the "Message alert tone"; see page 63).


- 1 Press  to save the message to your Inbox.

- 2 Later when you want to read the message, press **Menu 2 1**.

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

- 3 Scroll to the message you want, then press **Read**.

- 4 If the message is long, use the scroll keys to see the entire message.

- 5 Press  to see the sender's name or phone number, reception date, and time.

• ERASE A MESSAGE

While reading a message

- 1 While reading the message, press **Options**.
- 2 When Erase appears highlighted, press **OK**.
Your phone asks you to confirm that you want to erase the message.
- 3 Press **OK**.

• REPLY TO A MESSAGE

While reading a message:

- 1 Press **Options**.
- 2 Scroll to **Reply**, then press **OK**.
- 3 Enter your message.

OR

Press **Options**, scroll to **Template**, select a template and enter your message.

- 4 Press **Options**, scroll to **Send**, then press **OK**.

If replying to a text message:

- The phone displays the return number
- Edit the number if needed, then press **OK**.

If replying to an E-mail

- The E-mail address block appears. Press **OK**.
- The Number block appears with an E-mail code already entered. Press **OK**.

- 5 A message appears, confirming the E-mail or text message was sent.



Note: On some systems, you may need to enter the E-mail address and another E-mail code. Check with your service provider for details.

• FORWARD A MESSAGE

- 1 Press **Options**.
- 2 Scroll to **Forward**, then press **OK**.
The message text appears.
- 3 Edit the message if necessary, then press **Options**.
Send appears already highlighted.
- 4 Press **OK**.
The **Number** box appears.
- 5 Enter the recipient's phone number, then press **OK**.
OR
 - Press **Search** to recall a stored name and phone number, then press **OK**.
 - Press **OK** again to confirm.

• USE NUMBER

You can save or dial a phone number that is included in a message.

- 1 Press **Options**.
- 2 Scroll to **Use number**, then press **OK**.
- 3 If more than one number is shown, scroll to the one you want, then press **OK**.

The phone displays the number on the screen. You can dial it or save it as if you had entered it yourself.

• MESSAGE SETTINGS

Change common settings for all messages

- 1 Press **Menu 2 7**.
- 2 Scroll to **Common**, then press **Select**.

- 3 Scroll to **Delivery reports** or **Reply via same center**, then press **Select**.
Delivery reports: Scroll to **Yes** or **No**, then press **OK**. **Yes** means that the network tries to send delivery reports for the messages you send.
Reply via same center: The network tries to route the reply to this text message through your own message center.

• MESSAGE STORAGE

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



Note: Depending on your SIM card, the inbox and outbox can contain a total of up to 30 messages.


• PICTURE MESSAGES

Using **Menu 2 4**, you can send picture messages with your phone. There are 14 images included in your phone. All images can be replaced or deleted.



Note: Picture messaging must be supported by your service provider and by the receiving phone.


Send picture messages

- 1 Press **Menu 2 4**.
- 2 When the picture list appears, scroll to the picture you want to send, then press **View**.
 The picture appears. To choose a different picture, press , scroll to another picture, then press **View**.
- 3 Press **Options** and scroll to **Forward**, and press **Select**.
- 4 Recall or enter the phone number to which you want to send the picture message.

- 5 Press **OK**.



Send picture messages with text

- 1 Press **Menu 2 4**.
- 2 When the picture list appears, scroll to the picture you want to send, then press **View**.

The picture appears. To choose a different picture, press , scroll to another picture, then press **View**.

- 3 Press **Options**.

When **Edit text** appears, press **Select**.

- 4 Use predictive text input or standard text input to write the message (up to 121 characters) to go along with the picture (see "Writing messages" on page 86 for more information).
- 5 After writing the message, press **Options**, then scroll to one of the following:
 - **Save picture** lets you permanently assign the text to that picture.
 - **Clear text** lets you erase the entire text message.
 - **Preview** lets you see the picture and text message before sending it. Press  or  as needed to see the entire message.

OR

Scroll to **Send picture** and press **OK**.


- 6 Enter the phone number to which you want to send the picture message and press **OK**.

Sending picture message appears, followed by **Picture message sent**.



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

Receive picture messages

- 1 When your phone displays **Picture message received**, press **View** 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** to keep the picture message, or press  and **Exit** to delete it.

Other picture message options

Erase: Deletes the picture you select and any text saved with the picture.



Caution: The **Erase** function permanently deletes the picture and text.

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

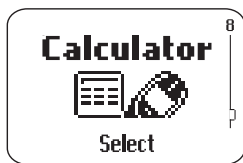
Details: Shows the phone number of the person who sent you that picture message.

17 Your personal digital assistant

• CALCULATOR



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




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

Use the calculator

- 1 Press Menu 8.
- 2 Enter the first number in the calculation.
 - Press \odot # to enter a decimal point and press Clear to erase any mistakes.
 - To add, press \odot *+ once (+ appears)
 - To subtract, press \odot *- twice (- appears)
 - To multiply, press \odot * three times (* appears)
 - To divide, press \odot */ four times (/ appears)
- 3 Enter the second number, repeating steps as needed.
- 4 Press Options.
Equals is selected.
- 5 Press OK.

Convert currency

SET THE EXCHANGE RATE

- 1 Press **Menu 8**, then press **Options**.
- 2 Scroll to **Exchange rate**, then press **OK**.
- 3 Scroll to **How many home units to a foreign unit** (to enter the number of domestic units to a foreign unit) or **How many foreign units to a home unit** (to enter the number of foreign units to a domestic unit).
- 4 Press **OK**.
- 5 Enter the exchange rate (press  to enter a decimal point).
- 6 Press **OK**.

CONVERT A CURRENCY AMOUNT

- 1 Press **Menu 8**, then press **Options**.
- 2 Scroll to **In home curr. to convert to domestic units** or **In foreign curr. to convert to foreign units**.
- 3 Press **OK**.
- 4 Enter the numbers you want converted, then press **Options**.
- 5 Scroll to **In home curr.** or **In foreign curr.**, then press **OK**.

• CALENDAR



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

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



View the calendar

- Press **Menu 9** to see the current day's calendar screen.

If the time isn't set, **Set phone clock** appears followed by the Time screen. Enter the time in **hh:mm** format or in 24-hour format.

Enter the date

- 1 Press **Options**, scroll to **Set the date**, and press **Select**.
- 2 Enter the current month and day in **mm/dd/yyyy** format, then press **OK**.

(Example: Enter December 31, as **12/31/2000**).

Date is set appears.

VIEW DAY NOTES

This option allows you to view, erase, edit, move, and send notes made for the selected day. Use the scroll keys to scroll through notes. Options available while viewing a note are **Erase**, **Edit**, **Move** (to another date), **Send note** to send the note,


MAKE NOTE

With this option, you can choose from four note types: **Reminder**, **Call**, **Meeting**, or **Birthday**. Your phone asks you for more information depending on which one you choose.

- 1 Press **Options**, scroll to **Make note**, then press **Select**.
- 2 Scroll to the desired note type (for example, **Reminder**) and press **OK**.
- 3 Enter a subject for the reminder and press **OK**.
- 4 Enter the date for the reminder in **mm/dd/yyyy** format and press **OK**.
- 5 When **Set alarm for the note?** appears, choose **Yes**.
 - Enter the date for the alarm, then press **OK**.
 - Enter the time for the alarm, then press **OK**.
 - Choose **am** or **pm**, and press **OK**.





Calendar note saved appears briefly, and then the current day's calendar screen appears.

OR

If you'd rather not set an alarm, press .

- **Calendar note saved** appears briefly, and the calendar screen for the day of the reminder appears.

When you set calendar notes for the displayed date, the appropriate icon(s) appear in the lower right-hand corner:

	Birthday reminder
	Meeting reminder
	Call reminder
	Other reminder

ERASE NOTES

1 Scroll to **Erase notes** and press **Select**.

2 Scroll to **Of chosen day**, **One by one**, or **All at once**, then press **OK**.

Of chosen day: Displays each note for the current day so you can delete the notes individually. Press **Erase** to delete the note, or press the scroll keys to view other notes.

One by one: Displays notes in chronological order, with birthdays first, so you can delete them individually. Press **Erase** to delete the note, or press the scroll keys to view other notes.

All at once: Allows you to delete all calendar notes at once. The phone asks you to confirm your decision before erasing the notes.

17

VIEW ALL NOTES

Lets you scroll through all stored notes. Birthday notes appear first in chronological order, followed by other notes, also in chronological order.

GO TO DATE

This option takes you directly to the specified date instead of scrolling.

- Enter a date in **mm/dd/yyyy** format, then press **OK**.

SET THE DATE

This option allows you to set the current date in your phone.

- Enter the date in **mm/dd/yyyy** format, then press **OK**.

Work with calendar notes

ERASE A CALENDAR NOTE

- 1 While viewing a note, press **Options**.
- 2 When **Erase** appears highlighted, press **OK**.
A confirmation message appears.
- 3 Press **OK** to erase the note.

OR

Press  to return to the note.

EDIT A CALENDAR NOTE

- 1 While viewing a note, press **Options**.
- 2 Edit the note as needed, then press **OK**.

Your phone will prompt you to edit other information, depending on the type of note you're viewing.

MOVE A NOTE

- 1 To move (or reschedule) a note, open the note and press **Options**.
- 2 Scroll to **Move** and press **OK**.
- 3 Enter the new date for the note.

Your phone will prompt to edit other information, depending on the type of note you're viewing.

Send/receive calendar notes

SEND A CALENDAR NOTE

You can share your calendar notes with another phone

- 1 While viewing any calendar note, press **Options**.
- 2 Scroll to **Send note**, and press **OK**.

- 3 Recall from the phone book or enter the number to which you want to send the calendar note and press **OK**.

Sending message appears briefly.

VIEW RECEIVED CALENDAR NOTES

When someone sends you a note, your phone displays **Calendar note received**. You can save the note in your calendar and work with it in the same way as any other note in your calendar, including setting an alarm.

- 1 When your phone displays **Calendar note received**, press **Options**. **Show** appears highlighted.
- 2 Press **OK**.
- 3 Scroll through the note.

SAVE OR DISCARD RECEIVED CALENDAR NOTES

- 1 After viewing the calendar note, press **Back**.
- 2 Scroll to **Save**, then press **OK**.

OR

Scroll to **Discard** and press **OK**.

• ALARM CLOCK

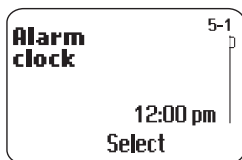


Warning: Do not switch on the phone to use this function when wireless phone use is prohibited or when it may cause interference or danger.

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

Set the alarm clock

- 1 Press **Menu 5 1**.
Set alarm time appears.
- 2 Enter the alarm time in **hh:mm** format.





- 3 Press **OK**.
- 4 Select either **am** or **pm** and press **OK**.

Alarm on appears briefly.



Note: Step 4 is necessary only in am/pm format.

- 5 Press and hold  to return to the start screen. The  icon appears at the top of the screen to show the alarm is set.

Manage the alarm

When the alarm sounds, you can shut it off or use the snooze feature.

PHONE ON

- Press **any** key to stop the alarm.

The alarm is reset and, on the next day, will sound again at the time you've set.



Tip: If you let the alarm sound for 1 minute without pressing a key, it stops for 5 minutes, and then sounds again.

OR

- Press **Snooze**.

The alarm stops and sounds again in 5 minutes.


To silence the alarm and keep snoozing, press **Stop**.

To shut off the alarm, press any key.

PHONE OFF

The phone switches itself on at alarm time, and then the alarm sounds.

If you press **any** key, the phone displays **Activate phone for calls?**

Press **Yes** to keep it on or  to shut it off.



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

Turn off the alarm clock

- 1 Press **Menu** 5 1.
- 2 Scroll to **Off** and press **OK**.

• BUSINESS CARDS

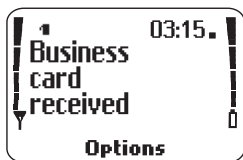
Your phone can send or receive electronic business cards consisting of a name and phone number. You can save received business cards to your phone book.

Send a business card

- 1 Press **Menu** and then **Select**.
- 2 Scroll to **Send** entry and press **Select**.
- 3 Scroll to the entry in the phone book that you want to send and press **Send**.
- 4 Enter or recall from the phone book the number to which you want to send the entry and press **OK**. To send a business card through e-mail see "E-mail messages" on page 95.
- 5 Sending message appears.

View a received business card

- 1 When your phone displays **Business card** received, press **Options**.
Show appears highlighted, along with **Save** and **Discard**.
- 2 Press **OK** to read the information.




Save a viewed business card

- 1 After viewing the business card, press **Back**, scroll to **Save**, then press **OK**.
- 2 At the **Name:** prompt, edit the name if you want to, then press **OK**.
- 3 At the **Number:** prompt, edit the number if you want to, then press **OK**.

Delete a viewed business card

After viewing the business card, press **Back**, scroll to **Discard**, then press **OK**.

View more than one business card

- 1 When your phone displays **Business card received**, press **Options**. **Show** appears highlighted, along with **Save** and **Discard**.
- 2 Press **OK** to read the information in the first business card.
- 3 Press **Back** and then .

The business card you last viewed is deleted and **Show** appears again with **Save** and **Discard**.



Note: To save the business card, press **Back** and refer to "Save a viewed business card."

- 4 Press **Show** to view the next business card.

18 Fun and games

• GAMES

Challenge yourself or a friend to the five fun games in your phone!



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

Snake II

Feed the snake with as many goodies as possible and watch it grow. Use keys **2** abc, **4** ghi, **6** mno, and **8** tuv to turn the snake toward food. The longer the snake's tail grows, the higher your score. You can choose to have a clear field, or select from five different mazes. If the snake runs into its own tail or one of the walls, the game is over.

Space Impact

Use your weapons to survive alien attacks. When you defeat all the enemies, you progress to the next level. Use **8** tuv and **0** _ to move up and down, ***** + and **#** to move left and right. Key **1** QW or **3** def fires the main weapons, and key **4** ghi or **6** mno fires bonus weapons.

Bumper

Get your highest score by keeping the ball on the table using the flippers. Press **5** jkl to launch the ball. Hold down the key to get more power. Use keys **1** QW and **3** def to control the flippers. Use keys **4** ghi and **6** mno to nudge the table - but not too much or the game will tilt!

Bantumi

Play against the phone, dropping beans into the pots. Press **4** ghi or **6** mno to pick a pot and **5** jkl to drop the beans. Finish in your big pot and get another turn. Finish in your empty pot and get beans from the opponent's pot. The one with most beans wins.

Pairs II

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** (abc), **4** (ghi), **6** (mno), and **8** (tuv). Press **5** (jkl) to reveal the pictures.

• DOWNLOAD RINGING TONES++

You can download ringing tones to replace the 20 **(empty)** 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, **Ring**ing tone received appears.

Listen to received ringing tones

- 1 When your phone displays **Ring**ing 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 **Back**.
- 2 Scroll to **Save** tone, then press **OK**.
- 3 Choose which ringing tone you want to replace (either an empty place holder, or a previously downloaded tone), 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 **OK**.

• RINGING TONE COMPOSER

This function lets you make up your own, custom ringing tone.

Features

- 7-note scale with three octaves for each note.
- Note and rest duration selectable from whole note to 32nd note and whole rest to 32nd rest.
- Tempo ranges from 40 beats per minute (BPM) to 225 BPM.
- Each tone can be up to 50 notes long.
- You can copy the tone to another phone.

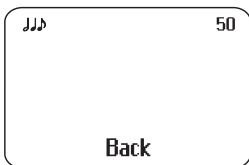
Compose the tone

SELECT COMPOSER

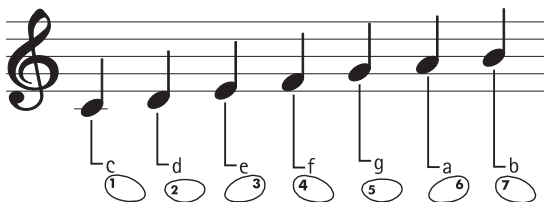
- Press Menu 10.
- The composer screen appears.



The number in the upper right corner indicates how many notes are available.

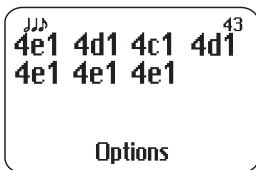


The notes in Composer begin with c and end with b.



ENTER NOTES FOR "MARY HAD A LITTLE LAMB."

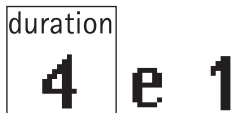
- Press **def 3** **2 abc** **1 qd** **2 abc** **def 3** **def 3** **def 3**.
- As you press each key, you hear each note and the entries appear on the screen:



NOTE DEFINITIONS:

Duration

The first number indicates how long the note lasts. The smaller the number, the longer it lasts.



- 1 - whole note
- 2 - half note
- 4 - quarter note
- 8 - eighth note
- 16 - sixteenth note
- 32 - thirty-second note

- The next note entered keeps the same duration as the previous note. Press **8** to make it shorter or **9** to make it longer.
- Press **C** to erase one note, or press **C** repeatedly to erase several notes.


Note

Notes range from c to b.

4 note
e 1**Octave**

This indicates the pitch range of the note.
The higher the number, the higher the pitch
range.

4 e octave
1

Press  to select different
octaves

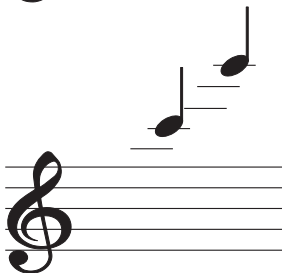
Octave 1



Octave 2



Octave 3







CLEAR SCREEN

Caution: This option erases the tone completely!

- 1 Press **Options** and scroll to **Clear screen**.
- 2 Press **OK** to erase the entire tone.

RESTS AND SHARPS

- Press  to insert brief pauses between notes, known as rests.
- Press  to make the rest shorter, or  to make the rest longer.
- Press  to make the note sharp.

The note plays again at the higher pitch.

PLAY THE TONE

- 1 Press **Options**.
Play appears highlighted.
- 2 Press **OK**.
The new tone plays.

SET THE TEMPO

- 1 After entering notes in **Composer**, press **Options** and scroll to **Tempo**.
- 2 Press **OK**.
Tempo ranges from 40 BPM (slow) to 225 BPM (fast).
- 3 Scroll to the tempo you want and press **Select**.
- 4 Scroll to **Play** and press **OK** to hear the tone at the new tempo.

SAVE THE TONE

- 1 After entering notes in **Composer** and setting the tempo, press **Options** and scroll to **Save**.
- 2 Press **OK**.
- 3 Enter a name for the tone and press **OK**.
The tone name now appears in the **Ringtone** list.

SEND THE TONE


You can send the tone to another phone.



Tip: Before sending the tone to another phone, set the message mode to "Messages sent as text." See "Set the message mode" on page 86. Also, the phone to which you're sending the tone must be capable of receiving ringing tones. Check with your service provider for more information.

- 1 Press **Menu** 10.
- 2 When the tone appears, press **Options**.
- 3 Scroll to **Send** and press **OK**.
The tone name appears.
- 4 Press **OK**.
- 5 Enter or recall from the phone book the number to which you want to send the tone.
- 6 Press **OK**.

SELECT THE TONE

- 1 Press **Menu** 4, choose a profile, and press **Select**.
See "Profiles" on page 60.
- 2 Scroll to customize and press **OK**.
Ringing tone is the first menu item.
- 3 Press **Select**.
The list of ring tones appears.
- 4 Scroll to the name of the tone you composed and press **Select**.
- 5 Press .
Customize appears highlighted.
- 6 Scroll up to **Select** and press **OK**.

19 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.

This phone is intended for use when supplied with power from the PPH-1 car kit, an ACP-7U, an ACP-8U, or an LCH-9 charger. Other usage could invalidate any approval given to this apparatus and might be dangerous.



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



Note: For information on how to charge and recharge your battery, refer to "Charge the battery" on page 11.

When the battery is charged the battery bar stops scrolling. **Battery full** appears also, if the phone is on. Allow another 2 hours for a "trickle" or "maintenance" charge.

When you are not using a charger, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging could shorten its 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.

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 top of the battery.

An example of short-circuiting could occur if you carry a spare battery in your pocket or purse, where the battery could come into contact with 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°C and 25°C (59°F and 77°F).

A phone with a hot or cold battery might not work temporarily, even if the battery is fully charged. The performance of 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 of safety 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.

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.



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

Remember: Safety—Your most important call.

Operating environment

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

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



Note: Do *not* connect incompatible products.

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

Electronic devices

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

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 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:

- Should always keep the phone more than 6 inches (20 cm) from their pacemakers when the phone is switched on.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.



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

HEARING AIDS

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

OTHER MEDICAL DEVICES

Operation of any radio transmitting equipment, including cellular phones, could interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy. Also contact these authorities if you have any questions.

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

VEHICLES

RF signals could improperly affect 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.

Potentially explosive atmospheres

Switch off your phone if you are in any area that has a potentially explosive atmosphere, and obey all signs and instructions. Sparks in such areas could cause an explosion or fire, resulting in bodily injury or even death.

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

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

Vehicles

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

Regularly check that all wireless phone equipment in your vehicle is mounted and operating properly.

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

• EMERGENCY CALLS



IMPORTANT!

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

Remember, to make or receive any calls, the phone must be switched on and be used in a service area that has adequate signal strength. Emergency calls might not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

Always 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 Call.

If certain features are in use (Fixed dialing, restrict calls, and so on), you might first need to turn those features off before you can make an emergency call. Consult this 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 might be the only means of communication at the scene of an accident—*do not* terminate the call until given permission to do so.

CERTIFICATION INFORMATION (SAR)

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is .86 W/kg, and when worn on the body, as described in this user guide, is 0.68 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of

<http://www.fcc.gov/oet/fccid> after searching on FCC ID **GMLNPB-1BB**.

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**.

• ACCESSORIES

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

A FEW PRACTICAL RULES FOR ACCESSORY OPERATION

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

- Installation of any complex car accessories *must* be 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 118 for important battery usage information.

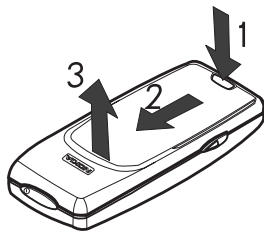
• XPRESS-ON™ COVERS

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

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

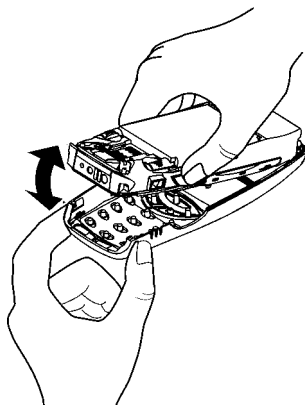
REMOVE THE BACK COVER

- 1&2** Press the back cover release button and slide the cover forward.
- 3** Lift the cover off the phone.



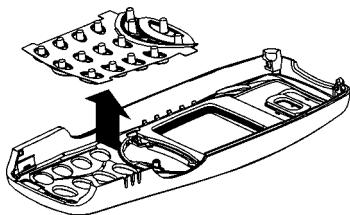
REMOVE THE FRONT COVER

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



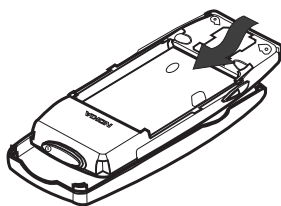
REMOVE THE KEYPAD

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



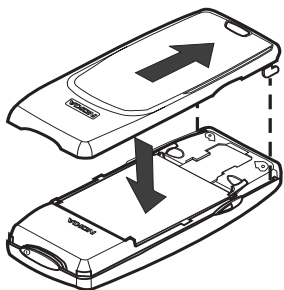
REPLACE THE FRONT COVER

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



REPLACE THE BACK COVER

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



• BATTERIES

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



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

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



Note: The charging times listed below are approximate.

CHARGING TIMES

Battery option	ACP-7U Charger	ACP-8U Charger
BMC-2 NiMH Battery 640 mAh	2 hrs 45 min	1 hr 30 min
BMC-3 NiMH Battery 900 mAh	4 hrs	2 hrs
BLC-2 Li-Ion Battery 850 mAh	3 hrs 15 min	2 hrs 15 min



Tip: The times displayed above allow your battery to obtain most of its capacity. When this happens, the battery scroll bars on your phone's screen stop scrolling. If you want to obtain full battery capacity, allow another 2 hours for a "trickle" or "maintenance" charge.

STANDBY AND TALK TIMES



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

Battery option	Digital talk time	Standby time
BMC-2 NiMH Battery 640 mAh	up to 2 hrs 40 min	up to 5.5 days
BMC-3 NiMH Battery 900 mAh	up to 3 hrs 45 min	up to 7.5 days
BLC-2 Li-Ion Battery 850 mAh	up to 3 hrs 45 min	up to 7.5 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.

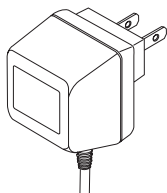


Note: When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since overcharging the battery could shorten its life span. If left unused, a fully charged battery will discharge itself over time.

STANDARD TRAVEL CHARGER (ACP-7U)

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

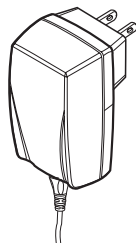
To use the Standard Travel Charger, plug it into a wall outlet and connect the lead from the charger to the base of your phone.



RAPID TRAVEL CHARGER (ACP-8U)

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

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



The charger can also be used together with the optional Desktop Charging Stand. Approximate charging times for discharged batteries are shown in "Charging Times" on page 130.

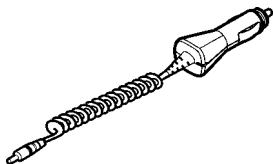
TRAVEL CHARGER (ACP-12)

This charger is especially suitable for active travelers because it works with multiple voltages. Plug it into a standard 120V or 220V AC wall outlet, and connect the lead from the charger to the base of your phone.

MOBILE CHARGER (LCH-9)

You can charge your phone's battery from your vehicle battery by using the Mobile Charger. You can also use this lightweight charger with the Desktop Charging Stand.

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

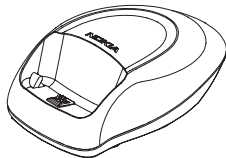


The input voltage range is from 11 to 32V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger when the car engine is not running; this could cause your car battery to drain. Note also that, in some cars, the cigarette lighter plug is not provided with electricity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

DESKTOP STAND (DCV-10)

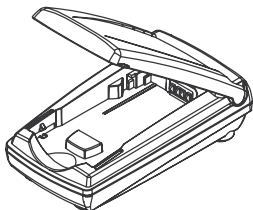
This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.

Used together with the Standard Travel Charger (ACP-7U), the Travel Charger (ACP-12), or the Rapid Travel Charger (ACP-8U), the Desktop Charging Stand is an economical choice when you need your phone close at hand, always ready for calls.



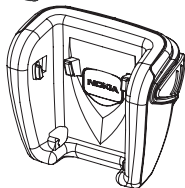
SPARE BATTERY CHARGER (DDC-1)

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



MOBILE HOLDER (MBC-6)

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



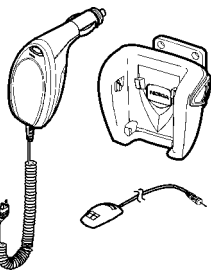
HEADSET KIT (HDE-2, HDC-5)

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



EXPRESS CAR KIT (CARK-125)

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



LEATHER CARRY SLEEVE (CSL-12)

A luxurious leather sleeve with standard belt clip.

MICROFIBER CARRY SLEEVE

A colorful, form-fitting carry sleeve with standard belt clip.


Purple - CSH-7 Gray - CSM-2 Blue - CSM-3

• TECHNICAL INFORMATION

Weight	4.7 oz. with standard battery
Transmitting power	1.0 watt
Operating voltage	3.6v DC, 12VDC for car kit
Networks	GSM 1900
Frequency band	1850 - 1910 MHz (TX) 1930 - 1990 MHz (RX)
Number of channels	299
Memory locations	Up to 250 in SIM

20 Troubleshooting

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

Problem	Possible cause	Possible solution
My phone isn't charging.	The charger and the phone are not properly connected.	Securely connect the charger to the phone.
	The charger is not properly plugged in.	Make sure that the charger is plugged in correctly.
My phone isn't making/answering calls.	The battery is not charged.	Charge the battery.
	The signal strength is poor.	If you are indoors, move toward a window.
	The phone line has changed.	Press and hold  to select the correct line, 1 or 2.
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 "Voice mail++" on page 39.
	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.

21 Frequently asked questions (FAQ)

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



Note: Some of the answers tell you to use menu shortcuts. For a complete listing of these shortcuts, refer to "List of menu shortcuts" on page 22.

Q. How do I lock my phone?

- A. Press **Menu 5 6 1**, press **Select**, enter your PIN code, and press **OK**. Scroll to **On** and press **OK**.

Refer to "PIN and PUK codes" on page 68 for details.

Q. How do I unlock my phone?

- A. Press **Menu 5 6 1**, press **Select**, enter your PIN code, and press **OK**. Scroll to **Off** and press **OK**.

Refer to "PIN and PUK codes" on page 68 for details.

Q. What is my lock code?

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

Refer to "PIN and PUK codes" on page 68 for details.

Q. What is my security code?

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

Refer to "Security code" on page 71 for details.

Q. How do I lock the keypad?

A. To lock the keypad:

- Press Menu .

Refer to "Lock the keypad (Keyguard)" on page 68 for details.

Q. How do I unlock the keypad?

A. To unlock the keypad:

- Press Unlock and .

Refer to "Lock the keypad (Keyguard)" on page 68 for details.

Q. How do I make the ringing louder?

Refer to "Profiles" on page 60 for details.

Q. How do I change the ringing tone?


Refer to "Profiles" on page 60 for details.

Q. How do I store my voice mailbox number?


A. Press **Menu** 2 10 2. Enter your voice mailbox number, then press **OK**. This number can be up to 32 digits long.

This voice mailbox number is valid unless your phone number changes. If your phone number changes, you will have to save a new voice mailbox number. Refer to "Save the voice mailbox number" on page 40 for details.

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

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

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

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

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

See "Voice mail++" on page 39. for details.

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

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

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

- A. Press  once.

See "Redial the last-dialed number" on page 20 for details.

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

- A. Press **Menu**, then **Select**, scroll to **1-touch dialing**, and press **Select**.
Scroll to the key number you want to assign a 1-touch dial number and press **Assign**.



Note: If you have numbers saved in SIM memory, the first nine numbers are automatically stored in keys 2 through 9 as 1-touch dial numbers.




Scroll to the phone book entry that you want to assign to this key and press **Select**. Refer to "1-touch dialing" on page 57 for details.

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

- A. Press **Menu** and then **Select**. Scroll to **Options**. Press **Select**.

Scroll to **Memory status** and press **Select** again. A message appears stating the amount of memory locations free and in use.

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

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

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

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

Q. Why doesn't the battery last as long as the user guide says it will?

A. A battery's life greatly depends on how the battery is charged. Be sure to charge the battery for 24 hours so it will reach a 100% charge.

• **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.

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 the Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
- 14** This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.
- 15** Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.
- 16** Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)
- 17** The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

Nokia is a registered trademark of Nokia Corporation.

Appendix

- A MESSAGE FROM THE CTIA

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Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

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

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

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

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

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

Wireless Phone "Safety Tips"

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

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

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

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

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

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

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

- **A MESSAGE FROM THE FDA**

July 18, 2001

For updates: <http://www.fda.gov/cdrh/phones>

Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10. What about children using wireless phones?

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

evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

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

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

12. Where can I find additional information?

For additional information, please refer to the following resources:

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

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

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Para obtener un manual del usuario en español favor de llamar o enviar un fax al teléfono 1-888-NOKIA-2U, fax 813-249-9619.
