

Nokia 7250i User Guide

DRAFT



Phone notes

My Nokia 7250i information		Information source
My number		Wireless provider
Voicemail number		Wireless provider
Wireless provider customer care		Wireless provider
Message center number		Wireless provider
Default recipient number (e-mail gateway number)		Wireless provider
International Mobile Equipment Identifier (IMEI)		On back of your phone, beneath the battery
Model number	7250i	
Phone type	NHL-4J	

The wireless phone described in this guide is approved for use in GSM 900, 1800, and 1900 networks.

LEGAL INFORMATION

Part No. 9355971, Issue No. 1-DRAFT No. 4

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Printed in Canada 9/2002

US Patent No 5818437 and other pending patents. T9 text input software

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Includes RSA BSAFE cryptographic or security protocol software from RSA Security.



Java is a trademark of Sun Microsystems, Inc.

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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 this manual.



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



ROAD SAFETY COMES FIRST

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



INTERFERENCE

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



SWITCH OFF IN HOSPITALS

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



SWITCH OFF IN AIRCRAFT

Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING

Don't use the phone at a refuelling 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.



OBSERVE INFRARED PRECAUTIONS

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



ENHANCEMENTS AND BATTERIES

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



CONNECTING TO OTHER DEVICES

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



BACKUP COPIES

Remember to make backup copies of all important data.



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 the Talk key. To end a call, press the End key. To answer a call, press the Talk key.



EMERGENCY CALLS

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

2 Overview of functions



Certain features use shared memory. Please see "Shared memory" on page 24 for more information.

• **CAMERA**

Your phone has a built-in camera that can be used for taking pictures. After you have taken a picture, you can attach it to a multimedia message and send it with the Multimedia Messaging Service (MMS). And, you can use a picture as wallpaper in standby mode. And, you can save your pictures in a compatible PC using Nokia PC Suite software.

See "Camera (Menu 7)" on page 126 for more information.

• **FM STEREO RADIO**

Your phone has an integrated FM stereo radio. You can listen to the radio through a headset or the handsfree speaker (with the headset attached). See "Radio (Menu 6)" on page 123 for more information.

• **MULTIMEDIA MESSAGING SERVICE (MMS)**

Your phone is able to send and receive multimedia messages made up of text and pictures, and to receive messages containing text, a picture, and sound such as polyphonic ringing tones. You can save pictures and ringing tones to personalize your phone. In addition, you can easily send text messages and multimedia messages to multiple recipients!

See "Multimedia Messages" on page 71 and see "Message options" on page 65.

• **SPEAKERPHONE**

You can use your phone as a speakerphone during a call. See "Use the loudspeaker" on page 46.

• **GENERAL PACKET RADIO SERVICE (GPRS)**

GPRS technology allows mobile phones to send and receive data over a mobile network. Applications such as web browsers, MMS, text messaging, and Java™ use GPRS. Your phone supports up to three simultaneous GPRS connections. For more information on GPRS, see "GPRS, HSCSD, CSD" on page 167.

Also, consult the PC Connectivity Guide. The PC Connectivity Guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of www.nokia.com.

Before you can use GPRS technology

- Contact your network operator or service provider for availability and subscription to the GPRS service.
- Save the GPRS settings for each of the applications used over GPRS.

PRICING FOR GPRS AND APPLICATIONS

Your wireless provider may charge for GPRS services. For more information on pricing, contact your wireless provider.

• **OVER THE AIR (OTA) SETTINGS SERVICE**

To use web browsers, MMS, GPRS, and other wireless services, you must have the proper settings on your phone. If you receive the settings directly as an OTA message, then you need only to save the settings on your phone. For more information about the availability of the settings, contact your service provider or nearest authorized Nokia dealer.

• **IMPROVED WEB BROWSER**

The built-in web browser on your phone can display both WAP-based and xHTML-based content. For more information, please see "Services (Menu 14)" on page 171.

• MIDP JAVA™ APPLICATIONS

Your phone supports Java™ and includes some Java applications and games that have been specially designed for mobile phones.

You may be able to download new applications and games to your phone from a PC with Java installer software or from some Mobile Internet services. See "Applications (Menu 11)" on page 141 for more information.

• POLYPHONIC SOUND (MIDI)

Polyphonic sounds are used in ringing tones, gaming sounds, and message alert tones. They consist of several sound components played at the same time, like an actual melody through a speaker. Your phone has sound components from over 40 instruments that can be used for polyphonic sounds and the phone can play four instruments simultaneously. The phone supports Scalable Polyphonic MIDI (SP-MIDI) format.

You can receive polyphonic ringing tones via multimedia service, (see "Read and reply to a multimedia message" on page 76), or download them via the gallery menu, see "Gallery (Menu 8)" on page 128 for more information.

• SPECIAL MENU FEATURES

- Full-color animated images introduce every menu on your phone.
- With the My Menu feature, you can create a convenient **Go to** menu available through the **Right selection** key that lists the functions that you use most often. For more information about My Menu, please see "Right selection key settings" on page 109.
- Quick keys from the Start screen take you instantly to frequently-accessed functions. Please see "Quick keys" on page 28.

3 Welcome and quick guide

Congratulations on your purchase of the Nokia 7250i mobile phone. Your phone provides many functions which are practical for daily use, such as a Camera, Radio, Alarm clock, Calculator, Wallet, Calendar, and more. Your phone can also connect to a PC, laptop, or other device using the data cable or built-in IR port. To personalize your phone, you can use "My Menu" and select from a variety of Xpress-on™ color covers. For more information on connectivity, refer to the PC Connectivity Guide. The PC Connectivity Guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of www.nokia.com.

• UNDERSTAND WIRELESS NETWORK SERVICES

The wireless phone described in this guide is approved for use on the GSM 900, GSM 1800, and GSM 1900 networks.

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

• REGISTER YOUR PHONE

Make sure to register your phone at www.warranty.nokiausa.com or 1-888-NOKIA-2U (1-888-665-4228) so that we can serve your needs better if you should need to call the center or have your phone repaired.

• E-NEWSLETTERS

When you register your phone, you can sign up for Nokia's e-newsletter, Nokia Connections, if you would like. You will receive tips and tricks on using your phone, enhancement information, and special offers.

• NOKIA 7250i PHONE AT A GLANCE



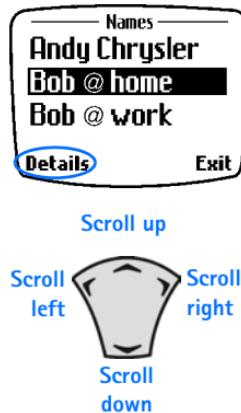
• GET THE MOST OUT OF THIS GUIDE

The "Nokia 7250i phone at a glance" diagram illustrates the various components of your phone. Familiarize yourself with the diagram to help you better understand the instructions that follow.

Understand the terms

This guide uses certain terms for the steps that you are asked to perform.

- **Press** means to press and release a key quickly. For example, **Press 7** means press the key on the keypad that is labeled with the number 7 and the letters "p, q, r, s".
- **Press and hold** means to press and hold a key for two to three seconds (depending on the feature you are using), then release the key.
- **Highlighted** options on the screen are enclosed within a dark bar. The selection keys are used to act on the highlighted option.
- **Selection keys** are used to select a menu option. To select an option, press the selection key below the menu item on the phone's screen. In the example to the right, to select **Details** you would press the left selection key. To **Exit** the phonebook, press the right selection key.
- **Scroll keys** are used to move up and down in the menus. With some features, such as the calendar monthly view, text messages, and special characters, you can move the screen cursor up and down as well as left and right. For example, if instructed to scroll to another phonebook entry, this means press the **Scroll up** key or the **Scroll down** key.
- **Talk and End keys:** Press the **Talk** key to place a call or to answer an incoming call. Press the **End** key to end a call or press and hold to return to the idle screen.



Observe text clues

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

Text clue	What it means
bold	Indicates one of the following items: <ul style="list-style-type: none">• A word or phrase on the phone's screen.• Special text such as Notes and Warnings.
bold and blue	Indicates the text is an address on the World Wide Web.
<i>italic</i>	Indicates emphasis. Pay close attention to any information in <i>italics</i> .

Follow graphic clues

This guide uses graphic clues (icons) to alert you to important information.



Tip: Provides a shortcut or an alternate method to do something.



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



Important: Explains information critical to use a feature correctly.



Caution! Helps you to avoid information loss.



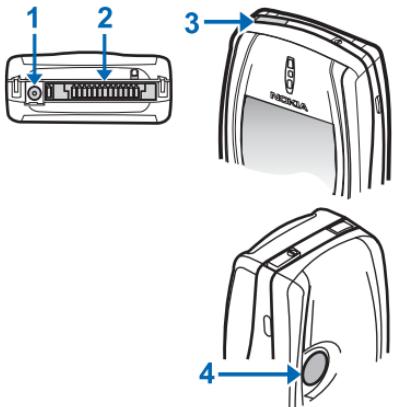
Warning! Helps you avoid personal injury, damage to the phone, or property damage.

Quick guide to functions

Make a call	Enter a phone number, press the Talk key.
Answer a call	Press the Talk key or select Answer .
Answer a call while already on another call (call waiting)	Press the Talk key.
End a call	Press the End key.
Decline a call	Press the End key. This sends the call directly to voice mail.
Mute a call	Select Mute during a call.
Redial	Press the Talk key twice.
Adjust call volume	Press the Volume keys during a call.
Use in-call menu	Select Options while in a call.
Save a name and number	Enter a number, press Save , then enter a name and press OK .
Use 1-touch dialing	Press and hold key 2 through 8 . You must first assign a number in the phonebook to a key.
Look up a name or number	Select Names then select Search .
Check voice mail	Press and hold the 1 key OR call your voice mailbox number (contact your service provider for complete details).
Send text messages	Press Menu 01-1 . Select Write new . Add the recipient's phone number and press OK . Press Options again and scroll to Edit message . Write the message. Press Options , scroll to Send , press Select . Note: Messaging services are dependent on your service provider.
Read new message	If "New Message" appears on the display, select Read , then select Read again when the message is highlighted.
Reply to a message	After reading the message, select Options , select Reply , write the reply, select Options , select Send .

Connection ports and other tools

- Charger connector (1)
- Pop-Port™ connector for headsets and data cables (2)
- Infrared (IR) port (3)
- Camera lens on the back cover of the phone (4)



Use the antenna

Your phone has a built-in antenna. As with any other radio transmitting device, avoid touching the antenna while the phone is powered up.

Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than necessary. Hold the phone as you would any other telephone with the antenna area pointed up and over your shoulder.



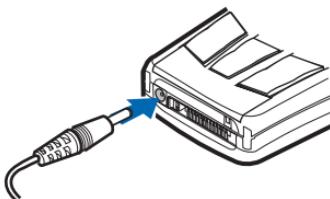
Use the battery

CHARGE THE BATTERY

1 Plug the charger transformer in to a standard AC outlet.

2 Insert the charger output jack into the round connector at the bottom end of the phone.

After a few seconds, the battery indicator in the display starts to scroll from bottom to top. If the battery is completely flat, it may take a few minutes before the charging indicator appears on the display or any calls can be made.



 **Tip:** You can use the phone while the charger is connected.

REMOVE THE BACK COVER

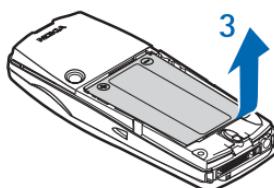
1 With the back of the phone facing you, push the back cover release button.

2 Lift the bottom of the back cover to remove.



REMOVE THE BATTERY

3 After you have removed the back cover, insert your finger into the finger grip and lift the battery from its compartment.



Install the SIM card

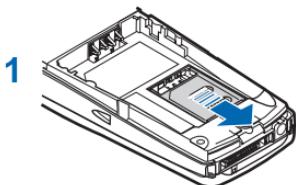


Warning: Keep all SIM cards out of reach of small children.

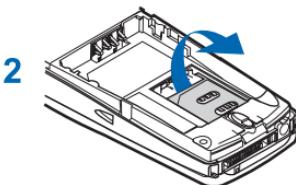
- The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting or removing the card.

- Before installing the SIM card, always make sure that the phone is switched off and that you have removed the cover and battery.

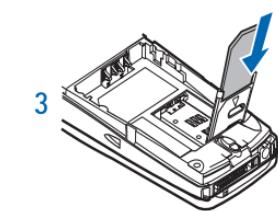
- 1 Slide the SIM card holder toward the bottom end of the phone until it unlocks.



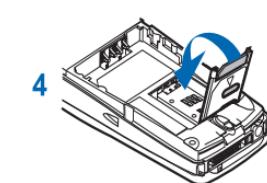
- 2 Swing the SIM card holder open.



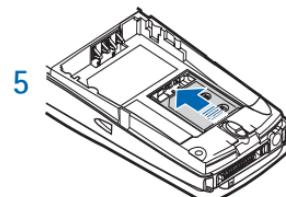
- 3 Insert the SIM card into the holder, (beveled corner last) and the gold contacts facing toward the top end of the phone.



- 4 Close the SIM card holder.



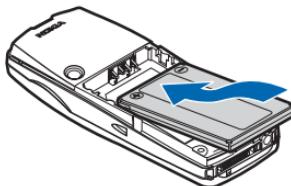
- 5 Slide the SIM card holder toward the top end of the phone until it locks into place.



REPLACE THE BATTERY

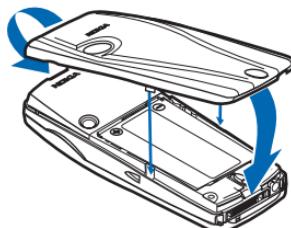
The SIM card must be installed *before* installing the battery.

- 1 Position the battery so the gold contacts match up with those on the phone. The battery label should be facing *away* from the phone.
- 2 Insert the battery, contact end first into the battery slot.
- 3 Snap the other end of the battery into place.



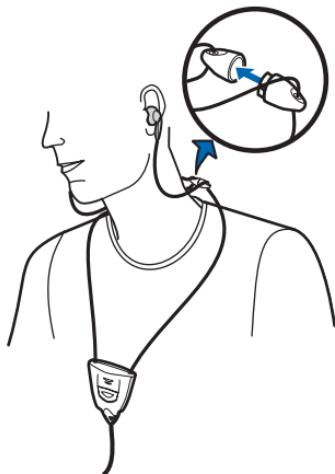
REPLACE THE BACK COVER

- 1 Place the top of the back cover to the locking catch in the top of the phone.
- 2 Position the back cover over the locking catches on the both sides of the phone and press down to lock the cover into place.



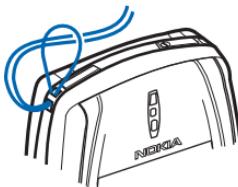
Connect and wear the stereo headset

After you connect the stereo headset (HDS-3) to the Pop-Port connector of your phone, you can wear the headset as shown in the picture.



Thread a wrist strap

Thread a strap as shown in the picture, and then tighten it.



Shared memory

The following features in your phone use shared memory: Phone book, text and multimedia messages, images and ringing tones in gallery, calendar and to-do notes, Wallet notes, and Java™ games and applications. Using any of these features leaves less memory for other features. This is especially true with heavy use of any of the features. For example, saving many images may take all of the shared memory and your phone may display that the memory is full. In this case, delete some of the information or entries reserving the shared memory.

The following functions share dynamic memory that is dependent on the data quantity per item and shared memory available at a time in the Nokia 7250i.

- Phone book (up to 500 entries)
- Phone book images (up to 100 average size 2 kB images)
- Camera images (up to 25 average size 27 kB images)
- SMS (up to 150 text messages or 50 picture/concatenated messages)
- MMS (up to 30 max size 30 kB MMS messages)
- Ringing tones (31 preset, 20 removable, up to 60 average size 5 kB ringing tones)
- Images (10 preset, up to 50 average size 10 kB images)
- Calendar notes (up to 500 entries)
- To-do list (up to 30 entries)
- Java™ applications (3 preset, up to 15 max size 64 kB per app)

Static memory

The following features in your phone use static memory:

- Browser cache (up to 20 entries)
- Browser bookmarks (up to 30 entries)
- Browser security cache and certificates (up to 20 entries)

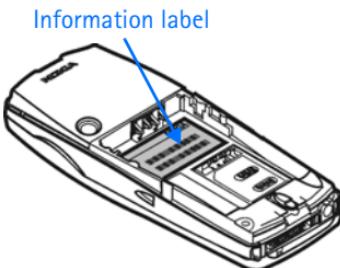
• GET HELP

Find your phone's label

If you need help, Nokia Customer Care is available for assistance. Before calling, however, please read "Frequently Asked Questions" on page 196.

We also recommend that you write down the following information and have it available if you call. The information can be found on back of the phone, beneath the battery.

- The International Mobile Equipment Identifier (IMEI)
- We also ask that you write down your zip code.



Contact Nokia

Please have your phone or enhancement with you when contacting either of the numbers below.

Nokia Customer Care Center, USA	Customer Interaction Center, Canada
<p>Nokia, Inc. 7725 Woodland Center Boulevard Suite #150 Tampa, Florida 33614 Tel: 1-888-NOKIA2U (1-888-665-4228) Fax: 1-813-249-9619 TTY: 1-800-24NOKIA (hearing impaired only) (1-800-246-6542)</p>	<p>Nokia Products Ltd. 601 Westney Road South Ajax, Ontario L1S 4N7 Tel: 1-888-22NOKIA (1-888-226-6542) Fax: 1-905-427-1070</p>

Contact your service provider

To use the network services available in your phone, you'll need to sign up with a wireless provider. In many cases, the wireless provider will make available descriptions of their services and instructions for using features such as:

- Voice mail and voice privacy
- Call waiting, call forwarding, and caller ID
- Messaging
- News and information services
- Selected Internet services

Wireless providers may differ in their support of features. Before you sign up, make sure a wireless provider supports the features that you need.

Learn about accessibility solutions

Nokia is committed to making mobile phones easy to use for all individuals. For more information about phone features, enhancements, alternate format user guides, and other Nokia products designed with your needs in mind, visit the web site www.nokiaaccessibility.com or call 1-888-665-4228 .

Look for updates

From time to time, Nokia updates this guide to reflect changes. The latest version may be available at www.nokia.com.

Visit online tutorials

An interactive tutorial for this product may be available at the web site www.nokiahwto.com.

• SWITCH YOUR PHONE ON OR OFF



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



- 1 To turn your phone on or off, press and hold the power key on top of the phone for at least 3 seconds.

If the phone displays **Insert SIM card** even though the SIM card is properly inserted, or **SIM card not supported**, contact your wireless provider.

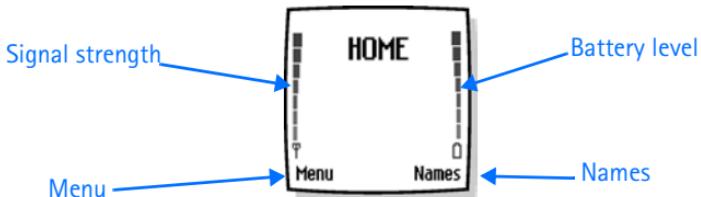
- 2 Enter the PIN code if necessary and press **OK**.
- 3 Enter the security code if necessary and press **OK**.



Note: If the language that appears in your display is not correct, see "Set the display language" on page 115 for information on changing your phone's display language.

• CHECK THE START SCREEN

The Start screen is "home base" and indicates your phone is in idle mode.



Item	Description
HOME	The name of your wireless provider may appear here
Signal strength	A higher bar indicates a stronger network signal.
Battery level	A higher bar indicates more power in the battery.
Menu	Press the Left selection key to select this option.
Names	Press the Right selection key to select this option.

Quick keys

From the Start screen, each scroll key takes you instantly to frequently-accessed menus.

Key	Function
Scroll up	Turn on the camera
Scroll left	Create a message.
Scroll down	Go to the phone book
Scroll right	View the calendar

Understand indicators and icons

Icon	Indicates...
	You have one or more text or picture messages. See "Reply to a message or e-mail" on page 71
	You have one or more multimedia messages. See "Read and reply to a multimedia message" on page 76
	You have one or more voice messages. See "Voice messages" on page 78
	Your phone's keypad is locked, see "Lock the keypad" on page 54
	Your phone is set to the Silent profile. "Profiles (Menu 4)" on page 106
	The alarm clock is set to On . See "Data that you have entered or downloaded is not deleted. For example, names and numbers in your Phone book are not affected." on page 122
	The countdown timer is running. See "countdown timer" on page 147
	The stopwatch timing is running in the background, see "stopwatch" on page 148
	A GPRS dial-up connection is established, see "GPRS dial-up connections" on page 168
	You have an incoming or outgoing call during a GPRS dial-up connection. GPRS is suspended
	IR connection indicator, see "Infrared" on page 166
	Forward all voice calls. All calls are forwarded to another number. If you have two phone lines, the indicator for line 1 is 1 and for line 2 2

Icon	Indicates...
2	If you have two phone lines, indicates that you are on the 2nd phone line. See "Phone settings" on page 115
	Integrated handsfree is active, see "Speakerphone" on page 11
	Calls are limited to a closed user group; see "Set up a closed user group" on page 62
	The timed profile is selected, see "Profiles (Menu 4)" on page 106
 ,  or 	A headset, handsfree or loopset enhancement is connected to the phone

• BROWSE PHONE MENUS

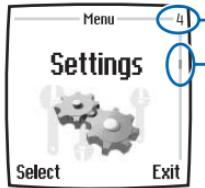
Your phone's features are grouped according to function and are accessed through your phone's main menus. Each main menu contains submenus and lists from which you can select or view items, and customize your phone's features. You can access these menus and submenus by using the *scroll method* or by using a *shortcut*.

 **Note:** Some features may not be available, depending on your network. For more information, contact your wireless provider.

Use the scroll method

- 1 At the Start screen, press **Menu**, then scroll through the main menus using the up and down scroll keys (the **Scroll up** key and the **Scroll down** key).

As you scroll through the menus, the menu number appears in the upper right corner of the display. Below the menu number is a scroll bar with a tab. The tab moves up or down as you scroll through the menus, providing a visual representation of your current position in the menu structure.



- 2 When you arrive at a menu, press **Select** (the **Left selection key**) to enter that menu's submenus.
- Press **Back** (the **Right selection key**) to return to the previous menu.
- Press the **End** key to return to the Start screen from any menu or submenu.

Use a shortcut

You can go directly to almost any menu or submenu, as well as activate most features by using a shortcut.

- Press **Menu**, then within 3 seconds, press the key or keys associated with the menu function you'd like to view or activate.

For example, to select the **Meeting** profile, press **Menu 3-3-1** from the Start screen (**Menu - 3Profiles - 3Meeting - 1Select**). After a brief pause, the **Meeting** profile is activated.

A complete list of shortcuts begins on the following page.

Check in-phone help

Many features have brief descriptions (help text) which can be viewed on the display. To view these descriptions, scroll to a feature and wait for about 10 seconds. Press **More** to view all of the description (if necessary), or press **Back** to exit.

ACTIVATE OR DEACTIVATE HELP TEXT

- 1 At the Start screen, press **Menu 5-4-8** (**Settings > Phone settings > Help text activation**).
- 2 After a brief pause, **On** and **Off** appear in the display.

3 Scroll to On or Off and press Select. A confirmation message appears in the display indicating your selection.

• MENU SHORTCUTS

To access a menu quickly, press "Menu," then enter the shortcut. For example, to view calls that you missed, select Menu, press the 2 key, then press the 1 key (menu 2-1 is the Call log – Missed calls menu).

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4 Basic operations

• SET THE CLOCK

Before many functions such as call timers and other features will operate properly, you need to set the clock.

- 1 At the Start screen, press Menu 5-2-1 (Settings - Time and date settings - Clock).

After a brief pause, **Show clock** (or **Hide clock**) **Set the time**, and **Time format** appear in the display with **Show clock** (or **Hide clock**) highlighted.

- 2 Scroll to **Set the time** and press **Select**.
- 3 Enter the time (in hh:mm format) and press **OK**.
- 4 Scroll to **am** or **pm** and press **Select**. The time is set.

• MAKE AND ANSWER CALLS



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

Use the keypad

- 1 Enter the phone number (including the area code), and press the **Talk** key.
- To delete a character to the left of the cursor, press **Clear**.
- 2 Press the **End** key to end the call or to cancel the call attempt.

Make an international call

To make an international call, press the **Star** key twice for the international prefix. A plus (+) sign replaces the international access code. Then, key in the country code, the area code without a leading zero (if necessary), and the phone number.

Use the phone book

- 1 At the Start screen, press the Scroll up key or the Scroll down key and scroll to the entry you wish to view.
- 2 Press the Talk key to make the call or press Details to view details of the entry.



Tip: To search the list of entries in your Phone book quickly, press any key in which the letters match the first letter of the name for which you are searching.

Answer or reject an incoming call

- Press the Talk key to answer the call
- Press the End key to reject the call; the call is diverted to your voicemail

If you press Silence, only the ringing tone is muted. You can then either answer or reject the incoming call.



Tip: If the HDB-4 or HDS-3 headset is connected, you can answer or end a call by pressing the key on the headset.

Answer a call with the keypad locked

To answer a call with keyguard on, simply press the Talk key. During the call, all features function as normal. When you end or reject the call, the keypad automatically re-locks.



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

Redial the last number

- 1 At the Start screen, press the Talk key to display the last 20 numbers you have dialed.
- 2 Press the Talk key to redial the last number, or scroll to the number (or name) you wish to redial and press the Talk key.

Adjust the earpiece volume

- To increase the volume of a call, press the volume up key on the left side of the phone.
- To decrease the volume of a call, press the volume down key on the left side of the phone.
- When adjusting the volume, a bar chart appears in the display indicating the volume level.

• CALL AND SETUP YOUR VOICEMAIL

- 1 Once you have saved the voice mailbox number, press and hold the 1 key.
- 2 When you connect and the pre-recorded greeting begins, follow the automated instructions to setup your voicemail.

Listen to your voice messages

Once you have setup voicemail, you can dial the number one of 3 ways:

- Dial the number using the keypad
- Press and hold the 1 key
- Press Listen if there's a notification message in the display

When you connect and the pre-recorded greeting begins, follow the automated instructions to listen to your voice messages.

• OPTIONS DURING A CALL

Many of the options that you can use during a call, are network services. Press Options during a call to display those listed in the following table.

Scroll to an option and press **Select** to activate the option or enter its submenu.

Option	Function
Mute	Mute your voice; you can hear the other party but they cannot hear you
Unmute	Return to normal from mute status
End call	End the call
End all calls	End all calls within a conference call
Phone book	Open the Phone book menu
Menu	Display the main menus
Hold	Place the current call on hold
Unhold	Remove the current call from hold status
New call	Place a new call; the first call is put on hold
Conference	Call another party and invite them into the call
Private	Have a private conversation with one participant in a conference call
Answer	Answer another incoming call
Reject	Reject a call; the calling party receives a busy signal
Loudspeaker	Enable the handsfree feature in your phone
Handset	Disable handsfree and return to normal use (earpiece)
Touch tones	Send touch tones generated by your phones keypad
Swap	Switch between the active call and the call on hold

Press **Swap** to switch between the active call and the call on hold, **Transfer** to connect a call on hold, and the **End** key to disconnect yourself from all calls.

Make a conference call

Conference calling is a network service that allows up to six persons to take part in a conference call.

- 1 Make a call to the first participant.
- 2 To call a new participant, press **Options**, scroll to **New call**, and press **Select**.
- 3 Enter the phone number of the new participant (or press **Find** to retrieve a number from your Phone book) and press **Call**. The first call is put on hold.
- 4 When the new call picks up, press **Options**, scroll to **Conference**, and press **Select** to connect the calls.
- 5 To add a new participant to the call, repeat steps 2 through 4.

HAVE A PRIVATE CONVERSATION WITH ONE PARTICIPANT

- 6 Press **Options**, select **Private** and select the desired participant. Rejoin the conference call as described in step 4.
- 7 To end the conference call, press the **End** key.

Use the loudspeaker

You can use your phone as a loudspeaker during a call. Do not hold the phone to your ear during the loudspeaker operation.

- To activate the loudspeaker, press **Options** and select **Loudspeaker**.
- To deactivate the loudspeaker during a call, press **Options** and select **Handset**.
- The loudspeaker is deactivated automatically when a call (or a call attempt) ends or when certain enhancements are connected.

• SET UP YOUR PHONE

Use the optional boom headset

The HDB-4 may be purchased with your phone or separately as an enhancement.

Connect the headset

- 1 Plug the headset jack into the Pop-Port™ connector at the bottom end of your phone.



- 2 Position the headset on your ear as it appears in the illustration to the right.

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

- Use the keypad to enter numbers
- Press the **Talk** key to place a call
- Press the **End** key to end a call



Adjust display brightness

- 1 Press **Menu 4-4-5** (Settings - Display settings - Display brightness). After a brief pause, a bar chart appears in the display indicating the current brightness level.
- 2 Press the **Left selection key** or the **Right selection key** to adjust the brightness to your preference.

Change the Xpress-on™ covers



Important: Before changing covers, ensure the phone is powered off and disconnected from the charger or any other device. Always store and use the phone with the covers attached.

REMOVE THE BACK COVER AND THE BATTERY

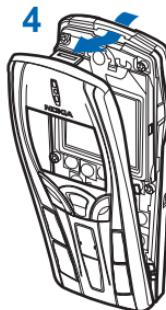
This procedure is illustrated in the section "Use the battery" on page 20.

- 1 Push the back cover release toward the top of the phone.
- 2 Lift the back cover away from the phone to remove.

3 After you have removed the back cover, insert your finger into the finger grip and lift the battery from its compartment.

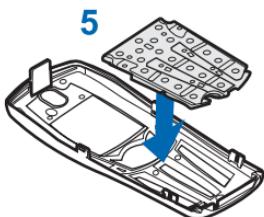
REMOVE THE FRONT COVER

4 Press the front cover latch on the top of the phone while gently pulling the top of the front cover away from the rest of the phone.



INSTALL THE KEYMAT AND NEW FRONT COVER

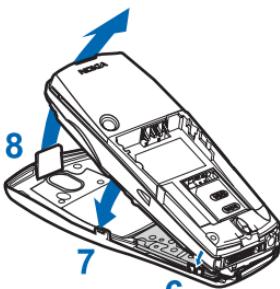
5 Remove the key mat from the old front cover and place it into the new front cover as shown.



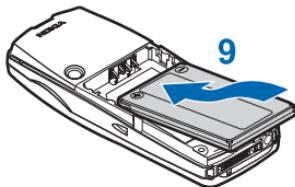
6 Insert the latches from the bottom of the new front cover into the matching holes at the bottom of the phone.

7 Gently push the latches from the middle of the front cover into the matching holes in the middle of the phone.

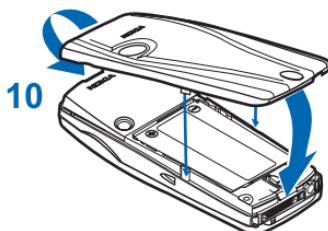
8 Gently push the cover latch on the top of the front cover through the locking hole in the top of the phone, and snap the cover into place.



9 Install the battery, and then match the top of the back cover to the locking catch in the top of the phone.



10 Position the back cover over the locking catches on both sides of the phone, and press down to lock the cover into place.



5 Text entry

You can use two methods for entering text and numbers.

- **Standard mode** is the only way to enter names into such things as the Phone book, calendar notes, and to rename caller groups
- **Predictive text input** is a quick and easy method for writing messages

• STANDARD MODE

Enter text (Abc)

- Press a key once to insert the first letter on the key, twice for the second letter, and so on. If you pause briefly, the last letter in the display is accepted and your phone awaits the next entry.
- Press the 0 key to enter a space thereby accepting a completed word
- Press the 1 key to enter a period (.)
- Press the Star key to display special characters. See more about special characters on the following pages

Enter numbers (123)

To switch to 123 mode from Abc mode, press and hold the Pound key at any message entry screen until the icon in the upper left corner of the display switches from Abc to 123 (or vice versa).

CLEAR THE SCREEN

- Press Clear to backspace the cursor and delete a character
- Press and hold Clear to backspace continuously and delete

Enter punctuation and special characters

While at any text entry screen, press the **Star** key to display special characters (press and hold the **Star** key if predictive text is on). The following special characters are available:

.	,	'	?	!	"	-	()	@	/
:	_	;	+	&	%	*	=	<	>	£
€	\$	¥	¤	[]	{	}	\	~	^
i	¿	§	#	l	—	◀				

Use four-way scrolling

You can navigate through a list of special characters by using the four-way scroll keys like a joystick. Once a character is highlighted, press **Insert** to insert the character into your message. Please see "Understand the terms" on page 16.

• PREDICTIVE TEXT INPUT

Predictive text input allows you to write messages quickly using your keypad and the phone's built-in dictionary. It is much faster than using the traditional "multi-tap" method. For each letter of the word that you are spelling, you only need to press the corresponding key on your keypad *once*. You can use predictive text to write a message, create a calendar note, make a to-do list, and more.

Activate/deactivate predictive text

- At any text entry screen, press and hold **Options**. Predictive text is turned on and off, depending on its previous mode.

OR

- At a text entry screen, press **Options**, scroll to **Predictive text**, and press **Select**.

2 Scroll to the language of your choice and press Select.

Predictive text is turned on. The predictive text icon (.) appears in the upper left corner of the display.

 **Note:** The Language setting affects the time and date formats of the Clock, Alarm clock, and Calendar.

Use predictive text

For example, to write *Nokia* with predictive text **on** and with the English dictionary selected, press each of the following keys *once*:

the 6 key the 6 key the 5 key the 4 key the 2 key



The illustration above simulates your display each time a key is pressed.

- Press the 0 key to enter a space and begin writing the next word.
- If a displayed word is not correct, press the **Star** key to see other matches. To return to the previous word in the list of matches, press **Previous**.
- If ? appears after a word, press **Spell** to add the word to the dictionary.
- Press the 1 key to insert a period into your message.
- Press and hold the **Star** key to display special characters. Press the **Star** key again to cycle through all available characters. See "Use four-way scrolling" in the following section for more information on special characters.



Note: Press the **Pound** key to switch predictive text on or off and to use predictive text in various modes. As you press the **Pound** key, the following icons (not the descriptions) appear in the upper left of the display:

 ABC	Uppercase text	 Abc	Sentence case text
	Predictive text is Off		Predictive text is On
 abc	Lowercase text	 abc	Lowercase text
	Predictive text is Off		Predictive text is On

Add new words to the dictionary

If you encounter a word that predictive text does not recognize, a question mark (?) follows the word and **Spell** appears in the lower left of the display.

- Press **Spell**, enter your new word using the keypad, and press **Save**.

The word is added to the dictionary as well as the message you are writing.

NOTES ABOUT ADDING WORDS

- New words that you accept by pressing **Select**, the **0** key, or deleting the space between two words are saved to the dictionary.
- Depending on the language and the length of the words, you may be able to add hundreds of words to the dictionary.
- When the dictionary is full, the most recent addition replaces the first.

6 Phone security

With keyguard, you can lock the keypad to prevent keys from being pressed accidentally. And with access codes, you can keep your private information safe.

• KEYGUARD

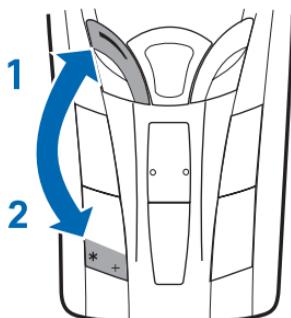
Remember to lock your phone's keypad to prevent accidental calls. If the keypad is locked, it unlocks when you receive a call. After the call, the lock automatically reactivates.

Lock the keypad

- 1 Select Menu with the Right selection key.
- 2 Press the Star key.

Unlock the keypad

- 1 Select Unlock with the Right selection key.
- 2 Press the Star key.



Important: When Keyguard is on, calls may be possible to dial emergency numbers (for example, 911 or other official emergency numbers). Key in the emergency number and press the Talk key. The number appears in the display after you have keyed in the last digit.

• SECURITY LEVELS

The security level determines your access to features when a "non-owner" SIM card is used. A "non-owner" SIM card is one (other than the original) that is inserted after you power off the phone. There are 3 security levels:

Security levels

Off	Owner and Non-owner cards are treated the same
Memory	Non-owner cards can access SIM memory. Any changes to the memory setting requires the security code.
	The owner card has access to all features, but the security code is required to change a memory setting
Phone	The security code is required upon power-up

Set your security level

- 1 At the Start screen, press **Menu 5-8-5** (Settings - Security settings - Security level).
- 2 After a brief pause, you are prompted to enter the security code. The default code is 12345. Enter the security code and press **OK**.
- 3 Scroll to **Off**, **Memory**, or **Phone** and press **Select**. A message appears in the display confirming your selection

• RESTRICT CALLS

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



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

Turn on call restrictions

- 1 Press **Menu 5-8-2** (Settings > Security settings > Call restrictions).

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

Outgoing calls: Calls cannot be made.

International calls: Calls cannot be made to foreign countries.

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

Incoming calls: Calls cannot be received.

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

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

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

- 3 Scroll to one of the following options:

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

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

Check status: The phone lists the call types with call restriction active.

- 4 Press **OK**.

About your restriction password

Contact your service provider for the restriction password.

Change your restriction password

- 1 Press Menu 4-7-6 (Settings > Security settings > Change access codes).
- 2 Scroll to **Change restriction password**, then press **Select**.
- 3 Enter your new password, then press **OK**.

• FIXED DIALING

Once you setup and activate a fixed dialing list, your phone can make calls *only* to those numbers that you have defined in the fixed dialing list. Fixed dialing is a network feature and must be supported by your wireless provider.



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

Set up and activate a fixed dialing list

- 1 At the Start screen, press Menu 5-8-3 (Settings - Security Settings - Fixed dialing). After a brief pause, the options in the following table appear in the display.

Fixed dialing options

On	Activate fixed dialing (see note above)
Off	Deactivate fixed dialing
Number list	View the numbers in your fixed dialing list



Note: If you activate fixed dialing and the number list is empty, all outgoing calls, except for emergency numbers such as 911, require entry of the PIN2 code.

- 2 Scroll to Number list and press Select. Fixed dialing not active and then Fixed dialing list empty appear in the display.
- 3 You are prompted to enter the PIN2 code. Enter the PIN2 code and press OK.
- 4 Enter the fixed dialing number, or press Find to retrieve a number from your Phone book and press OK.
- 5 Enter a name for the number and press OK. A confirmation note appears in the display and you are returned to the fixed dialing number list.

6 Press Back, scroll to On, and press Select to activate fixed dialing.

View or edit the fixed dialing list

- 1 At the Start screen, press Menu 5-8-3 (Settings - Security Settings - Fixed dialing).
- 2 Scroll to Number list and press Select.
- 3 You are prompted to enter the PIN2 code. Enter the PIN2 code and press OK.
- 4 Any numbers which you have assigned to fixed dialing appear in the display.
- 5 Scroll to a number and press Options.
- 6 The options in the following table appear in the display.

Fixed dialing number options

View number	View the number for an entry
Add	Add a number to your fixed dialing list
Edit	Edit the highlighted entry
Delete	Delete the highlighted entry
Delete all	Delete all entries in your fixed dialing list

- Use the scroll keys to highlight an option
- Press Select to activate or enter an option's submenu

Notes about fixed dialing

- If a SIM card with fixed dialing that is activated is inserted into a phone that does not support fixed dialing, the SIM card is rejected
- If you try to add a name (without a number) to the fixed dialing list, you'll receive an error message
- If you try to browse the fixed dialing list, but have not stored any

- numbers, Fixed dialing list empty appears in the display
- You cannot access SIM memory manually (view or copy numbers on the SIM card) while fixed dialing is active

• ACCESS CODES

With the following access codes, you can keep your information safe:

- Security code (4 to 8 digits)
- PIN code and PIN2 code (4 to 8 digits)
- PUK code and PUK2 code (8 digits)
- Call barring password (4 digits)
- Wallet code (4 to 10 digits)



Note: Avoid using codes similar to emergency numbers such as 911 to prevent accidental dialing of the emergency number.

Security code

The security code controls access to features such as the security level and is supplied with the phone. The preset code is 12345.



Note: If you enter the wrong security code five times in succession, you will not be able to enter a code for five minutes, even if you power off the phone between incorrect entries.

CHANGE YOUR SECURITY CODE

Once you change the security code from its preset of 12345, keep the new code secret, and in a safe place separate from your phone.

- 1 Press **Menu 5-8-6-1** (Settings - Security settings - Access codes - Change security code).
After a brief pause, you are prompted to enter the current security code (default is 12345).
- 2 Enter the current security code and press **OK**. You are prompted to enter the new security code.
- 3 Enter the new security code (up to 10 characters) and press **OK**.

You are asked to re-enter the new security code for verification.

- 4 Enter the new security code again and press **OK**. A message appears in the display confirming your security code has been changed.

PIN code

The PIN code protects the SIM card from unauthorized access. The PIN code can be 4- 8 digits in length. After three successive incorrect entries the PIN code is blocked and you'll be asked to enter the personal unblocking key (PUK) code.

 **Note:** The PIN code must be obtained from your wireless provider. The PIN code is typically provided with your SIM card.

PIN CODE REQUEST

Enable your phone to request the PIN code upon power-up. This provides extra security in case your phone is lost or stolen.

- 1 Press **Menu 5-8-1** (Settings - Security settings - PIN code request).
- 2 After a brief pause, you are prompted to enter the current PIN code. Enter the PIN code and press **OK**.
- 3 Scroll to **On** and press **OK**. A message appears in the display confirming your selection.

CHANGE YOUR PIN CODE

Before you can change your PIN code, you'll need to enable PIN code request. See "PIN code request" immediately preceding this section.

- 1 Press **Menu 5-8-6-2** (Settings - Security settings - Access codes - Change PIN code).
- 2 After a brief pause, you are prompted to enter the current PIN code. Enter the PIN code and press **OK**.
- 3 You are prompted to enter the new PIN code. Enter the new PIN code and press **OK**.
- 4 You are prompted to re-enter the new PIN code for verification. Enter the new PIN code again and press **OK**.

A message appears in the display confirming your PIN code has been changed.

PIN2 Code

The PIN2 code is required for features such as Fixed dialing. If you enter an incorrect PIN2 code three times in succession, the PIN2 code is blocked and you'll have to enter the PUK2 code.



Note: The original PIN2 code must be obtained from your wireless provider.

CHANGE YOUR PIN2 CODE

- 1 Press **Menu 5-8-6-3** (Settings - Security settings - Access codes - Change PIN2 code). You are prompted to enter the current PIN2 code.
- 2 Enter the current PIN2 code and press **OK**. You are prompted to enter the new PIN2 code.
- 3 Enter the new PIN2 code and press **OK**. You are asked to verify the new PIN2 code by entering it again.
- 4 Enter the new PIN2 code again and press **OK**. A message appears in the display confirming you have changed the PIN2 code.

Personal unblocking key (PUK) codes

PUK and PUK2 codes are used to restore blocked PIN and PIN2 codes. Both PUK and PUK2 codes are eight characters in length and cannot be changed. PUK and PUK2 codes must be obtained from your wireless provider.



Important: If you enter an incorrect PUK or PUK2 code 10 times in succession, the message **SIM rejected** appears in the display and the SIM card can no longer be used. You must contact your wireless provider for a new SIM card.

• SET UP A CLOSED USER GROUP

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



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

Turn on closed user groups

- 1 Press Menu 5-8-4 (Settings > Security settings > Closed user group).
- 2 Scroll to On, enter the group number, then press Select.

Turn off closed user groups

- 1 Press Menu 5-8-4 (Settings > Security settings > Closed user group).
- 2 Scroll to Off, then press OK.

Call barring password for closed user groups

A closed user group is a network service that specifies the group of people whom you can call and who can call you. For more information, contact your service provider.

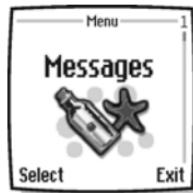
Wallet code

The wallet code is needed to access the wallet services. If you key in a wrong wallet code several times, the wallet application is blocked for five minutes. See "Wallet" on page 151 for more information.

7 Menu functions

Messages (Menu 1)

If you have subscribed to a message service, you can send and receive messages to compatible phones that are also subscribed to a message service. You can also send and receive picture messages, multimedia messages, and e-mail if supported by your network. Composed messages can be up to 450 characters in length.



→ **Note:** Please see "Text entry" on page 50 for more information.

→ **Note:** When your phone is dedicated to a call in progress, a JavaTM application (such as a game), or an active web browser connection, then the phone cannot receive multimedia messages.

Linked messages

Your phone can send and receive long messages (up to 450 characters) in sequences. While receiving linked messages, you can start reading the first part before the phone has received the entire message.

While viewing the message, you may see **some text missing** on the display. This is normal, and the message content will be updated as soon as the missing sequence arrives.

If the memory is full, you may have to delete a message from your inbox or outbox before your phone can update the missing text.

Before you can send and receive messages

You'll need the following to send and receive messages:

- A messaging service through your wireless provider
- A message center number, which must be saved to your phone (if your wireless provider has not done so already)

Message icons

Icons that precede the title of a message indicate the following:

	The message has not been read
	The message has been read
	A message (which you have composed) has not been sent
	The message is a delivery report
	The message is a MMS (multimedia message)

Choose your message type

You can choose the type of message sent by your phone. Types include Text and Fax.



Note: The default message type is Text.



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

- 1 At the Start screen, press Menu 01–6 (Messages - Message settings).
- 2 After a brief pause, Text messages appears highlighted. Press Select.
- 3 Sending profile is highlighted. Press Select.
- 4 Default profile is highlighted. Press Select.
- 5 Scroll to Messages sent as and press Select.
- 6 Scroll to the message type of your choice and press Select. A message appears in the display confirming your selection.

Save your message center number

Messages sent by your phone are routed through your wireless provider's message center. Normally, this number is saved to your phone by your wireless provider. To save the number manually, do the following:

- 1 At the Start screen, press Menu 01–6 (Messages - Message settings).

- 2 Text messages is highlighted. Press Select.
- 3 Sending profile is highlighted. Press Select.
- 4 Default profile is highlighted. Press Select.
- 5 *If the box in the display is empty*, enter the number given by your wireless provider and press OK.
- 6 *If the box is in the display is full*, edit the number *only* if you are sure the number is incorrect, or you'd like to change the number, and press OK.

A message appears in the display confirming your number is saved.

Message options

When you create a text or multimedia message, the following options are available:

Option	Function
Send	Send the message to one recipient.
Sending options	<ul style="list-style-type: none">• Select <i>Send to many</i> to send the message to one of your fixed calling groups.• Select <i>Sending profile</i> to send the message to one of your predefined profiles.
Clear text	Erase the text clipboard.
Save message	<ul style="list-style-type: none">• Select <i>Archive</i> to save the message in your archive.• Select <i>Templates</i> to save the message as one of your predefined templates.
Insert name	Insert a name from your phone book into your message.
Use template	Insert a predefined template into your message.
Insert picture	Insert a picture from your gallery into your message.

Option	Function
Exit editor	Save the message to your archive automatically and leave the message editor.
Predictive text	Start the predictive text utility.

• WRITE AND SEND A TEXT MESSAGE

 **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

- 1 At the Start screen, press Menu 01-1-1 (Messages - Text messages > Create message).
-  **Tip:** To go quickly to the Create message display, press the Left selection key at the Start screen.
- 2 After a brief pause, the message entry screen appears in the display.
- 3 Compose a message using the keypad and press Options.
- 4 Scroll to Send and press Select.
- 5 Enter the recipient's phone number, or press Find to retrieve a number from your Phone book, and press OK. Your message is sent.

Read messages

When you receive a message, your phone beeps and **Message received** appears in the display as well as the unopened letter icon (✉).

- 1 Press Show to read the message, or Exit to move it to your inbox.
-  **Note:** When you have unopened messages in your inbox, ✉ is shown in the upper left corner of the Start screen as a reminder.
- 2 Use the scroll keys (the Scroll up key or the Scroll down key) to view the whole message if necessary.
-  **Tip:** Keep scrolling to view other information, such as the sender number and time the message was sent.

- 3 Press Back to move the message to the Inbox, or press Options for other choices, such as Reply or Forward.

Read linked messages

Your phone can receive one long message (up to 450 characters) in sequences. You can start reading the first part before the phone has received the entire message.

While viewing the message, you may see *some text missing* on the display. This is normal, and the message content will be updated as soon as the missing sequence arrives.

If the memory is full, you may have to delete a message from your inbox or outbox before your phone can update the missing text.

Reply to a message

- 1 While viewing a message, press Options, scroll to Reply, and press Select.
- 2 Compose your reply using the keypad, then press Options, scroll to Send, and press Select.
- 3 The number of the original sender appears in the display. Press OK and your reply is sent.

Forward a message

- 1 While viewing a message, press Options.
- 2 Scroll to Forward and press Select.
- 3 Enter the recipient's phone number, or press Find to retrieve a number from your Phone book.
- 4 Press OK. The message is forwarded.

• PICTURE MESSAGES



Note: This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

Your phone comes with 10 pre-loaded pictures. You can, however, overwrite any of the 10 pictures that come with your phone. Pictures can be attached to a message and sent via text message to compatible phones. Picture messages behave the same as text messages, but pictures take up more space than text. Pictures are stored in the "Templates" folder under Messages - Templates.

 **Note:** You cannot send a picture message via e-mail.

Download pictures

Your phone can download pictures, or receive them from compatible phones via text messaging to use in messages. You can also create pictures and send them to your phone or other compatible phones using Nokia PC Suite.

 **Note:** This function can be used only if it is supported by your wireless provider. Only phones that offer picture message features can receive and display picture messages. Contact your wireless provider for details.

When you receive a picture message

When you receive a picture message, your phone beeps and Message received appears in the display as well the message icon (✉).

- 1 Press **Show** to view the picture message, or press **Exit** to move it to your inbox.
- 2 If you have more than one picture message, scroll to the message of your choice and press **Select** to view the message.

 **Note:** When you have unopened picture messages in your inbox, ✉ is shown in the upper left corner of the Start screen as a reminder.

- 3 Use the scroll keys to view the whole picture if necessary.
-  **Tip:** Keep scrolling to view other information, such as the sender number and time the message was sent.
- 4 Once you are finished, press **Back** to move the picture message to the

Inbox, or press Options for other choices, such as Reply or Forward.

TO SAVE THE PICTURE

If you'd like to save the picture to your Templates folder for later use:

- 1 Press Options, scroll to Save picture, and press Select. You can then enter a title for the picture and press OK.

 **Note:** If your templates folder is full of pictures, just scroll to the picture you'd like to replace and press Select.

Compose and send a picture message

One picture message is equivalent in size to 3 text messages. When you insert a picture into a message, you'll have enough remaining space for about 121 characters in the message. If you try and insert a picture into a message that is almost full of text, a beep sounds and you are prompted to delete some text before proceeding.

- 1 At the Start screen, press Menu 01-1-1 (Messages - Text messages - Create message).

After a brief pause, the message edit screen appears in the display.

- 2 Write a message using the keypad (or enter nothing if you choose to just send a picture), and press Options.

 **Tip:** Insert pictures before adding text. You can then check remaining space for text in the upper right corner of the display.

- 3 Scroll to Insert picture and press Select. A list of pictures appears in the display.

- 4 Scroll to a picture and press View.

- 5 Press Insert to insert the picture into your message, otherwise:

a) Press Back, scroll to another picture, and press View again.

b) Press Insert to insert the picture into your message.

- 6 To send the picture message, press Options, scroll to Send, and press Select.

- 7 Enter the phone number for your recipient (or press Find to retrieve a

number from your Phone book) and press **OK**. The message is sent.

PREVIEW, CHANGE, OR DELETE A PICTURE MESSAGE

- 1** After a picture has been inserted into your message, press **Options** at the message edit screen.
- 2** Scroll to one of the following options and press **Select**.
 - a)** **Preview** - Previews the inserted message before sending.
Press **Back** to return to the list of options.
 - b)** **Change picture** - Takes you back to the picture list.
Scroll to highlight a new picture, press **View** and then press **Insert** to replace the previous picture in your message.
 - c)** **Delete picture** - Press **OK** to delete the picture from your message, or press **Back** to return to the list of options.

• E-MAIL

You can send e-mail up to 160 characters in length to anyone with an e-mail address. First, you'll need to setup an e-mail profile and modify a few other settings. It takes just a few minutes, and you only need to do this once.



Important: The e-mail address is included in the total character count for an e-mail message, which is 160 characters.



Note: You cannot insert pictures into e-mail.



Note: Wireless providers may customize the text message settings interface. For more details about text message services, please contact your wireless provider.

Write and send e-mail



Note: See for ways to write messages faster.

1 At the Start screen, press **Menu 01-1-2 (Messages - Text messages - Create e-mail)**.

After a brief pause, you are prompted to enter the e-mail address.

- 2** Enter the e-mail address, or press **Find** to retrieve an e-mail address

from your Phone book, and press OK.

- 3 Enter a subject for the e-mail and press OK.
- 4 Compose your e-mail using the keypad and press Options.

 **Tip:** Be sure and leave enough space in the total character count (160) for the e-mail address.

- 5 Scroll to Send e-mail, if necessary, and press Select. Your e-mail is sent.

Reply to a message or e-mail

When you have received a text message or e-mail, , the number of new messages and Message(s) received appears in the display.

 **Note:** The blinking  indicates that the message memory is full. Before you can receive new messages, delete some of your old messages. See "Delete messages" on page 84 for more information.

- Press Show to view the message now, or Exit to view it later.

READING THE MESSAGE LATER

- 1 Press Menu, and select Messages, Text messages and Inbox.
- 2 If more than one message is received, select the message you want to read and press Select.

An unread text message is indicated by  in front of the message, and an unviewed picture message by .

• MULTIMEDIA MESSAGES

 **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

A multimedia message (MMS) can contain text, sound, and a picture. Your phone supports multimedia messages that are up to 3045 KB. If the maximum size is exceeded, the phone may not be able to receive the message. Depending upon your network, you may receive a message that

includes an Internet address where you can go to view the multimedia message. Pictures are scaled to fit the display area of the phone. Your phone has a multimedia message viewer for playing messages and a multimedia inbox for storing saved messages. Once you save the multimedia message, you can use the image as a screen saver or the sound as a ringing tone.

- ▶ **Note:** This function can be used only if it is supported by your wireless provider. Only compatible devices can receive and display multimedia messages.
- ▶ **Note:** The default setting of the multimedia message service is on, and your wireless provider may charge for messages received.

Multimedia messaging supports the following formats:

- Picture: JPEG, GIF, PNG, OTA-BMP and WBMP.
- Sound: SP-MIDI and monophonic ringing tones.

- ▶ **Note:** If a received message contains unsupported elements, they may be replaced with the text **Object format not supported**

Define MMS settings

Before you can use the multimedia message feature, you need to first define the way you want to receive the messages.

ALLOW MULTIMEDIA RECEPTION

You can choose to receive all messages or to receive messages only when you are in the service provider's home network.

- 1 At the Start screen, press Menu 01-6-2-2 (Messages - Message settings - Multimedia msgs. - Allow multimedia reception). After a brief pause, a list of options appears in the display.
 - Yes to allow all incoming messages
 - In **home system** to allow incoming messages only if you are in the service provider's home system.
- 2 After selecting one of the reception options, scroll to **Incoming multimedia messages**, then press **Select**.

- 3 Scroll to Retrieve, then press Select.

BLOCK MULTIMEDIA RECEPTION

- 1 At the Start screen, press Menu 01-6-2-2 (Messages - Message settings - Multimedia msgs. - Allow multimedia reception). After a brief pause, a list of options appears in the display.
- 2 Scroll to No and press Select.

ALLOW OR NOT ALLOW ADVERTISEMENTS



Note: This setting is not available if multimedia reception is blocked.

- 1 At the Start screen, press Menu 01-6-2-5 (Messages - Message settings - Multimedia msgs. - Allow advertisements). After a brief pause, Yes and No appear in the display.
- 2 Scroll to the setting of your choice and press Select.

Other MMS settings

Other multimedia settings include saving your messages to the **Sent items** folder and editing your connection settings.

- 1 At the Start screen, press Menu 01-6-2 (Messages - Message settings - Multimedia msgs.). After a brief pause, a list of options appears in the display.
- 2 Scroll to an option. Press Select to activate the option or to enter its submenu.

Message Setting	Function
Save sent messages	Saves sent multimedia messages to the Sent items folder
Allow multimedia reception	Chooses Yes, No, or In home network for your multimedia service. In home network cannot receive multimedia messages outside the home network.

Message Setting	Function
Incoming multimedia messages	Select Retrieve to receive multimedia messages, or Reject if you do not wish to receive multimedia messages.
Connection settings	Define web browser settings for retrieving multimedia messages. Activate the set where you want to save the connection settings and then edit the settings.
Allow advertisements	Allows you to enable or disable reception of automatic multimedia advertisements

Edit multimedia connection settings

- 1 At the Start screen, press Menu 01-6-2-4 (Messages - Message settings - Multimedia msgs. - Connection settings).
- 2 Scroll to Edit active multimedia settings and press Select.

3 The connection settings in the following table appear in the display. Scroll to a setting. Press Select to enter the setting's submenu.

Connection setting	Function
Settings' name	Rename the setting to your preference
Homepage	Enter the homepage where your browser retrieves multimedia messages
Session mode	Select session modes Temporary or Permanent
Data bearer	Select the data bearer
GPRS access point	Define the access point
IP address	Enter or change the IP address
Authentication type	Select from Normal or Secure
User name	Edit or enter your user name
Password	Edit or enter a password

ABOUT CONNECTION SETTINGS

You may be able to receive multimedia connection settings as a text message from your wireless provider. For more information, contact your wireless provider.

SELECT A FONT SIZE FOR YOUR MESSAGES

- 1 Press Menu 01-6-3-1 (Messages - Message settings - Other settings - Font size). After a brief pause a list of choices appear in the display.
- 2 Scroll to **Small font** or **Large font** and press Select. A message appears in the display confirming your selection.

Write and send a multimedia message

For availability and subscription to the multimedia messaging service, contact your wireless provider.

- 1 At the Start screen, press **Menu 01-2-1** (Messages - Multimedia messages - Write message). After a brief pause, the message entry screen appears in the display.
- 2 Enter the text of your message and press **Options**.
- 3 Scroll to **Insert image** or **Insert sound clip** and press **Select**.
- 4 Choose your image or sound clip from the list and press **Select**.
- 5 Scroll to **Send to number** or **Send to e-mail** and press **Select**.

 **Note:** If you have attached a picture or sound clip to the message, you cannot send the message via e-mail.

- 6 Enter the number of the recipient, or the e-mail address and press **Select**. The message is sent.

Read and reply to a multimedia message

When a multimedia message is being received,  appears (blinking) in the display. Once the message has been fully downloaded,  and **Multimedia message received** appears in the display.

- 1 To view the message, press **Show**. To view the message later, press **Exit** (and then **No** when asked to discard).
- 2 While viewing the message, press **Options**. Some or all of the following options may appear in the display. Scroll to an option and press **Select** to activate the option or enter its submenu.

Option	Function
Delete message	Delete a saved message
Reply	Reply to the message. Press Options and then Send . The sender's phone number or e-mail is used as the default
Forward to no.	Forward the message to another number

Option	Function
Forward to e-mail	Forward the message to an e-mail address
Edit	Edit the message. You can only edit messages that you have written
Details	View the message subject, size, and class
Play	Listen to a sound clip in the message, if one is included
Save tone	Save a ringing tone, if included, to the gallery
Zoom in	Enlarge the picture
Save image	Save any picture that is attached to your picture gallery



Note: If  blinks and **Multimedia memory full, view waiting msg.** appears in the display, memory for multimedia messages is full. You need to delete some of your old messages. See "Delete messages" on page 84 for more information.

Chat

You can have a conversation with another person using this "faster text messaging" application. You cannot save messages, but you can view them while chatting. Chat messages costs about the same as text messages.

START A CHAT SESSION

- 1 At the Start screen, press **Menu 01-3 (Messages - Chat)**. After a brief pause, you are prompted to enter the recipient's phone number.
- 2 Enter the recipient's number or press **Find** to retrieve a number from the phone book, and press **OK**.
- 3 Enter your Chat name (up to 5 characters) and press **OK**.

Another way to start a chat: When you have received a message, press **Show** to read it. To start a chat, press **Options** and select **Chat**.

- 4 Enter your chat message using the keypad. For faster ways to write a message, see "Predictive text input" on page 51.

- 5 When you are ready to send the message, press **Options**, scroll to **Send**, and press **Select**.
- 6 When you receive a reply, the message from the other person is shown above your original message.
- 7 To reply to the message, press **OK** and repeat the steps 4 and 5.
- 8 To end the chat session, press **OK** and select **Quit**.

- To view the latest messages of the current chat session, press **Options** and select **Chat history**. The message that you have sent is indicated by "<" and your nickname. The messages from your chat partner are indicated by ">" and that sender's nickname.
- Press **Back** to return to the message you are writing. To edit your nickname, press **Options**, scroll to **Chat name** and press **Select**.

• VOICE MESSAGES

If you subscribe to voicemail, your wireless provider will furnish you with a voice mailbox number. You need to save this number to your phone to use voicemail. When you receive a voice message, your phone lets you know by beeping, displaying a message, or both. If you receive more than one message, your phone shows the number of messages received.

Save your voice mailbox number

Your wireless provider may have already saved your voice mailbox number to your phone. If so, the number will appear in the display in step 2. Press **OK** to leave the number unchanged.

- 1 At the Start screen, press **Menu 01-4-2 (Messages - Voice messages - Voice mailbox number)**.
- 2 After a brief pause, the **Voice mailbox number** screen appears in the display.
- 3 If the box is empty, enter the voice mailbox area code and number.
- 4 Press **OK**. Your phone confirms the number has been saved.



Tip: Save yourself the trouble of entering the mailbox codes each time you dial voicemail. See "Automate voicemail" later in this section for more information.

Call and setup your voicemail

- 1 Once you have saved the voice mailbox number, press and hold the 1 key.
- 2 When you connect to voicemail and the pre-recorded greeting begins, follow the service's automated instructions to setup your voicemail.

Listen to your voice messages

Once you have setup voicemail, you can dial the number in one of 4 ways:

- Dial the number using the keypad
- Press and hold the 1 key
- Press Listen if there's a notification message in the display
- Press Menu 01-4-1 (Messages - Voice messages - Listen to voice messages). After a brief pause, your phone dials the voicemail number.

Once you connect and the pre-recorded greeting begins, follow the automated instructions to listen to your voice messages.

• AUTOMATE VOICEMAIL

You can insert special characters called "dialing codes" into phone numbers such as voicemail and then save the number to a 1-touch dialing location. Dialing codes instruct the receiving system to pause, wait, bypass, or accept the numbers that follow them in the dialing string.



Note: Each voicemail service can vary. The examples and steps that follow are for clarification. Check with your wireless provider if you have specific questions about your voicemail service.

Write down some information

- 1 Write down your voice mailbox number.

- 2 Call and check your voicemail as you normally would.
- 3 Write down your interaction with the recorded prompts step-by-step. Keep in mind that each voicemail service may vary. However, it should look something like this:

Dial 2145551212, pause 5 seconds, press 1, pause 2 seconds, press 1234, press pound key.

 **Important:** Be precise, you'll need this information in "Setup voicemail with dialing codes" later in this section.

LEARN HOW TO INSERT DIALING CODES

Press the **Star** key repeatedly to cycle through dialing codes. Once the desired code appears in the display, pause briefly and the code is inserted into the dialing string.

For example, press the **Star** key four times to display the "w" (wait character). Pause briefly and the wait character is inserted into the dialing string. Available dialing codes are as follows:

Dialing codes

*	Bypasses a set of instructions
+	Precedes an international telephone number
p	Pauses for 2.5 seconds before sending any numbers that follow
w	Wait. Your phone waits for you to press the Talk key before it sends any numbers or codes that follow.

Setup voicemail with dialing codes

- 1 At the Start screen, press **Names**, scroll to **1-touch dialing**, and press **Select**.
- 2 Scroll to an empty 1-touch dialing slot and press **Assign**.
- 3 Enter your voice mailbox number, including the area code.
- 4 Refer to the table entitled "dialing codes," and enter any codes as necessary using the information that you wrote down earlier.

For example, if you pause for 5 seconds after connecting to voicemail, enter **p** twice *after* the voice mailbox number, such as 2145551212**pp**.

- 5 Enter any remaining pauses, PIN codes, and other information that allows you to listen to your messages, then press **OK**.
- 6 Enter a name (such as Voicemail) and press **OK**. A message appears in the display confirming your 1-touch dialing location has been saved.

Now, to dial and listen to your voicemail, just press and hold the assigned 1-touch dialing key at the Start screen. No other keypresses should be necessary to connect and listen to your messages.

• MESSAGE OPTIONS

Some or all of the options in the following table are available for text messages, picture messages, multimedia messages, and e-mail.

- 1 While viewing a text, picture, multimedia message, or e-mail press **Options**.
- 2 Scroll to highlight an option. Press **Select** to activate the option or enter its submenu.

Option	Function
Delete	Delete the message you are viewing
Reply	Reply to the message; you have the option to include the Original text in the reply, a template, or empty screen
Use detail	Extract numbers, e-mail addresses and website addresses from the current message
Forward	Forward the message to another recipient
Edit	Edit the message

Option	Function
Move	Move the message to a folder you specify
Rename	Rename the message before it is saved to a folder
Copy to Calendar	Copy text from the beginning of the message to your phone's calendar as a reminder note for the current day.
Message details	View the sender's name and phone number, the message center used, reception date and time.

• ORGANIZE MESSAGES WITH FOLDERS

Save messages to folders

You can save messages to an existing folder or to a folder that you have created.

- 1 Press **Menu 01-1-1** (Messages - Text message - Create message). After a brief pause, the message entry screen appears in the display.
- 2 Write your message and press **Options**.
- 3 Scroll to **Save message** and press **Select**.
- 4 Scroll to the **Archive, Templates, or My folders** (if you have created a folder of your own) and press **Select**. The message is saved.

View saved messages

- 1 At the Start screen, press **Menu 01-1** (Messages - Text messages).
- 2 After a brief pause, scroll to the folder containing the message you wish to view and press **Select**.
- 3 Once the folder opens, scroll to the message you wish to view and press **Select**.

Inbox folder

Messages are automatically stored in the inbox after they have been read or if you press Back when Message received appears on the Start screen.

Outbox folder

Messages that you have created but have not sent are automatically stored in the outbox.

Archive folder

Store messages that have been read in the Archive folder.

Templates folder

Pictures and pre-written templates are stored in the Templates folder. Pre-loaded templates can be edited/customized.

My folders

Keep your messages organized by creating custom folders and saving some of your messages there.

ADD A FOLDER OF YOUR OWN

- 1 At the Start screen, press Menu 01-1-7 (Messages - Text messages - My folders). After a brief pause, the folder opens.
- 2 Press Options. Scroll to Add folder and press Select.
- 3 Enter a name for the new folder and press OK. The folder is added.

REMOVE A FOLDER

Only folders created in My folders can be deleted. The Inbox, Outbox, Archive, and Template folders are protected. When you delete a folder, all messages in the folder are also deleted.

- 1 At the Start screen, press Menu 01-1-7 (Messages - Text messages - My folders). After a brief pause, the folder opens.
- 2 Any folders that you have created appear in the display. Scroll to the folder you wish to remove and press Options.
- 3 Scroll to Delete folder and press Select. You are asked to confirm the

deletion.

- 4 Press **OK** to delete or **Back** to exit.

Move a message to a folder

- 1 While viewing the message, press **Options**.
- 2 Scroll to **Move** and press **Select**.
- 3 Scroll to the destination folder and press **Select**.

• DELETE MESSAGES

If your message memory is full and you have more messages waiting at the network,  blinks in on Start screen. You can do the following to create more space:

- Read some of the unread messages and then delete them
- Delete messages from some of your folders

Delete a single message

To delete a single message, you need to open it first.

- 1 Press **Menu 01-1** (Messages - Text messages). After a brief pause, a list of options appears in the display.
- 2 Scroll to the folder containing the message you wish to delete and press **Select**. A list of messages, if you have any, appears in the display.
- 3 Scroll to the message you wish to delete and press **Select**. The message opens.
- 4 Press **Options**, scroll to **Delete**, and press **Select**.
- 5 You are asked to confirm the erasure. Press **OK** to delete the message or **Back** to exit.

Delete all messages in a folder

- At the Start screen, press Menu 01-1-8 (Messages - Text messages - Delete messages). After a brief pause, a list of your folders appears in the display.
- Scroll to the folder containing the messages you wish to delete and press Select. You are asked to confirm your erasure.

 **Important:** If you select All messages, it deletes any messages which have been read in *all* of the folders.

- Press OK to empty the folder.

Change text, e-mail and picture message settings

- At the Start screen, press Menu 01-6-1-1 (Messages - Message Settings - Text messages - Sending profile).
- If more than one message profile set is supported by your SIM card, scroll to the set you wish to change and press Select.

Message Setting	Function
Message center number	Save the phone number of the message center, which is necessary for sending text messages; obtain this number is from your wireless provider
Default recipient number	For text messages, the default number used to send messages
Use GPRS	Set GPRS as the preferred method of sending text messages
Reply via same center	Allow the recipient of your message to send you a reply message via your message center (network service).
Messages sent as	Select the message type Text, E-mail, Page, or Fax

Message Setting	Function
Message validity	Define how long the network attempts to send your messages before it gives up
E-mail server number	For e-mail messages, the default number used to send e-mail
Delivery reports	Request the network to send delivery reports on your messages
Rename sending profile	Change the name of the selected sending profile; the sending profile sets display only if your SIM card supports more than one set

OVERWRITE SETTINGS FOR TEXT, E-MAIL, AND PICTURE MESSAGES

When the message memory is full, your phone cannot send or receive any new messages. However, you can set your phone to automatically replace old messages in the **Inbox** and **Outbox** folders when new ones arrive.

- 1 Press **Menu**, **01-6** (Messages - Message settings - Text messages). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Overwriting in sent items** or **Overwriting in inbox** and press **Select**.
- 3 Scroll to **Allowed** and press **Select** to replace the old messages with new ones in the **Sent items** or **Inbox** folder, respectively.

Change multimedia message settings

- 1 At the Start screen, press **Menu 01-6-2** (Messages - Message settings - Multimedia msgs.). After a brief pause, a list of options appears in the display.
- 2 Scroll to an option. Press **Select** to activate the option or to enter

its submenu.

Message setting	Function
Save sent messages	Saves sent multimedia messages to the Sent items folder
Allow multimedia reception	Chooses Yes, No, or In home network for your multimedia service. In home network cannot receive multimedia messages outside the home network
Incoming multimedia messages	Select Retrieve to receive multimedia messages, or Reject if you do not wish to receive multimedia messages
Allow advertisement	Allows you to enable or disable reception of automatic multimedia advertisements

RECEIVE MULTIMEDIA CONNECTION SETTINGS AS A TEXT MESSAGE

You may be able to receive multimedia connection settings as a text message from your wireless provider. For more information, contact your wireless provider.

SELECT A FONT SIZE

- 1 Press **Menu 01-6-3-1** (Messages - Message settings - Other settings - Font size). After a brief pause, a list of choices appear in the display.
- 2 Scroll to **Small font** or **Large font** and press **Select**. A message appears in the display confirming your selection.

Use the info message service

With the info message network service, you can receive short text messages on various topics, such as weather and traffic conditions, from your wireless provider.

- 1 At the Start screen, press **Menu 01-5** (Messages - Info messages). After a brief pause, the list of options in the following table appears in the display.

2 Scroll to an option. Press Select to activate the option or to enter its submenu.

Message setting	Function
Info service	Select On or Off to activate or deactivate the service
Topics	Options for selecting, adding, editing, and deleting info topics
Language	Select the language in which info messages are received. The language you select does not affect the language you select under the Phone settings menu
Info topics saved on SIM card	Select one or more info topics to save to your SIM card



Note: For more information on topics, contact your wireless provider.

Use service commands

Use the Service commands editor to enter and send service requests (also known as USSD commands) to your wireless provider. Contact your wireless provider for information about specific service commands.

- 1 At the Start screen, press Menu 01–7 (Messages – Service commands).
- 2 Enter a service request, such as an activation command for a specific network service, and press **Send**.

Call log (Menu 2)

Call log stores information about the last 10 missed, 10 received, or 20 dialed calls. It also adds the total duration of all calls. When the number of calls exceed the maximum, the most recent call replaces the oldest. For Call log to work properly:



- Your wireless provider must support caller ID, and it must be enabled
- Your calls cannot be blocked
- Your phone must be on and within the service area

• CALL LOG OPTIONS

Whether you are viewing missed, received, or dialed calls, each of the menu options will be the same. Please refer to the following table regarding menu options for these features.

Missed, received, and dialed call options

Call time	Display the date and time of the call
Send message	Send a message to the number
View number	Display the number
Edit number	Edit the number and associate a name with the number
Save	Enter a name for the number and save it to your Phone book
Add to name	Add the number to an existing entry in your Phone book, if the number is not associated with a name
Delete	Clear the number from memory
Call	Call the number

• **VIEW MISSED CALLS**

Missed calls are calls that were never answered. You can check for missed calls in two ways:



Note: The Missed calls feature does not function while your phone is off or outside of the service area.

- 1 If **# missed call** appears in the display, press **List**. The phone number appears in the display.
- 2 Press **Options** to display the options listed in the table on page 89.
- 3 Scroll to an option, press **Select** to activate the option or to enter its submenu.

OR

- 1 At the Start screen, press **Menu 2-1 (Call log - Missed calls)**. After a brief pause, a list of missed calls appears in the display (if any exist).
- 2 Scroll to a name or number and press **Options** to display the options listed in the table on page 89.
- 3 Scroll to an option, press **Select** to activate the option or to enter its submenu.

• **VIEW RECEIVED CALLS**

Received calls are calls that have been answered.

- 1 At the Start screen, press **Menu 2-2 (Call log - Received calls)**. After a brief pause, a list of received calls appears in the display (if any exist).
- 2 Scroll to a name or number and press **Options** to display the options listed in the table on page 89.
- 3 Scroll to an option, press **Select** to activate the option or enter its submenu.

• VIEW DIALED NUMBERS

You can view dialed numbers in one of two ways:

- 1 At the Start screen, press the **Talk** key. Your most recently dialed numbers appear in the display.
- 2 At the Start screen, press **Menu 2-3** (Call log - Dialed numbers). After a brief pause, your most recently dialed numbers appear in the display.
- 3 Scroll to a name or number and press **Options** to display the options listed in the table on page 89.
- 4 Scroll to an option, press **Select** to activate the option or enter its submenu.

Call times

You can receive up to five calls from the same number and view the time each call occurred. Your clock must be set for this feature to work accurately. See "Set the clock" on page 42 for instructions on setting your clock.

- 1 While viewing a missed or received call, press **Options**, scroll to **Call time**, and press **Select**.
- 2 The time that the last call occurred appears in the display.
- 3 Press the **Scroll down** key to view other call times from this number. Press **Back** to return to the options list.

• CLEAR CALL LISTS

To clear any missed, dialed, or received calls from your phone's memory:

- 1 At the Start screen, press **Menu 2-4** (Call log - Delete recent call lists). After a brief pause, **All**, **Missed**, **Received** and **Dialed** appear in the display.
- 2 Scroll to the call type you'd like to clear and press **Select**.

• **VIEW CALL DURATION**

- 1 Duration of last call.** At the Start screen, press **Menu 2-5-1** (Call log - Call timers - Duration of last call). The duration of your last call appears in the display.
- 2 Duration of dialed calls.** At the Start screen, press **Menu 2-5-3** (Call log - Call timers - Duration of dialed calls). The duration of all dialed calls appears in the display.
- 3 Duration of received calls.** At the Start screen, press **Menu 2-5-2** (Call log - Call timers - Duration of received calls). The duration of all received calls appears in the display.
- 4 Duration of all calls.** At the Start screen, press **Menu 2-5-4** (Call log - Call timers - Duration of all calls). The duration of all calls (missed, dialed, and received) appears in the display.

Phone book (Menu 3)

Your phone book can save up to 500 names, with multiple numbers and text notes for each name. The amount of numbers and text entries that you can save may vary, depending on their length and the total number of entries in the Phone book.



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Note: This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

• VIEW THE PHONE BOOK MENU

- 1 At the Start screen, press the **Right selection** key under **Names**. The menu items in the left column of the following table appear in the display.
- 2 Scroll to an item. Press **Select** to activate the feature or enter its submenu.

Menu item	Function
Find	Find a name or select from a list
Add entry	Add a name to your Phone book
Edit name	Edit an existing name
Delete	Delete a name and its associated numbers
Copy	Copy entries from Phone memory to SIM and vice versa
Add number	Add a number to an existing name
Settings	Set memory in use (Phone or SIM), change your Phone book view, and check the memory status of your Phone and SIM card

Menu item	Function
1-touch dialing	Display the list of 1-touch dialing numbers saved to memory
Service numbers	Display a list of numbers related to your wireless provider
Own numbers	View the numbers (line 1, line 2, data) in use by your SIM card
Caller groups	View and edit the properties (such as the ring tone) for any of the caller groups

• **SAVE NAMES AND NUMBERS**

You can save names and numbers to phone memory or to SIM memory.

Quickly save a name and number

- 1 At the Start screen, enter the phone number you wish to save.
- 2 Press **Options**, ensure **Save** is highlighted, and press **Select**.
- 3 Enter a name for the number and press **OK**. A confirmation message appears in the display indicating your entry has been saved.

Quickly save (only) a number

You can save a phone number as a stand-alone entry in your phonebook.

- 1 At the Start screen, enter the number you wish to save.
- 2 Press and hold **Options**. A message appears in the display confirming your number is saved.

Save an entry using the Phone book menu

- 1 At the Start screen, press **Names**, scroll to **Add entry** and press **Select**.
- 2 Enter a name using the keypad and press **OK**.
- 3 Enter a number and press **OK**.

- 4 Press Done to return to the Start screen.

Save addresses and notes

To save an email address, you'll need to add it to an existing entry (name).

- 1 Find the entry (name) in your Phone book to which you'd like to add an address or note.
- 2 With the entry highlighted, press Details.
- 3 Press Options, scroll to Add detail and press Select.
- 4 Scroll to the address or note of your choice and press Select.
- 5 Enter the text for the note or address and press OK.

Select your Phone book view and memory

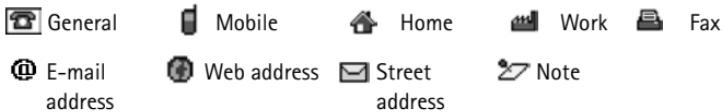
- 1 Press Names, scroll to Settings, and press Select.
- 2 Scroll to any of the options in the following table. Press Select to enter the option's submenu.

Option	Function
Memory in use	Select the memory you wish to use. Options are Phone, SIM card, or Phone and SIM combined. With Phone and SIM selected, names and numbers are saved to phone memory but entries saved to both memories appear in the display
Phone book view	Select the Name list, Name and number, or Name only view
Memory status	View the amount of phone or SIM memory used as well as the amount of phone or SIM memory available

Save multiple numbers and text items per name

You can save different types of phone numbers and short text items per name to the Phone book. The first number you save for any entry is automatically set as the default, or primary number.

- 1 At the Start screen, press the **Scroll up** key or the **Scroll down** key and scroll to the entry to which you wish to add a number or text item.
- 2 Press **Details**, and then press **Options**.
- 3 Scroll to **Add number** or **Add detail** and press **Select**.
- 4 Scroll to one of the following types and press **Select**:



- 5 Enter the number or text for the type you have selected and press **OK**.
 - To change the type, select **Change type** in the options list.

CHANGE THE DEFAULT (PRIMARY) NUMBER

- 1 At the Start screen, press the **Scroll up** key or the **Scroll down** key, scroll to the entry you wish to change and press **Details**.
- 2 Scroll to the number you wish to set as default and press **Options**.
- 3 Scroll to **As primary no.** and press **Select**.

Search for a name in the Phone book

- 1 At the Start screen, press the **Scroll up** key or the **Scroll down** key to display the contents of your Phone book.
- 2 Press the key which corresponds to the first letter of the name for which you are performing a search.
- 3 Press the **Scroll up** key or the **Scroll down** key to scroll up and down through names in the list.

Press the **Left selection** key or the **Right selection** key to move the

cursor left or right in the search window at the bottom of the display, if necessary.

- 4 Press Details to view the details of the selected name.

Edit a name, number or text item

- 1 Search for the entry as described in the previous section and press Details.
- 2 Scroll to the name, number or text item you wish to edit and press Options.
- 3 Scroll to Edit name, Edit number, or Edit detail and press Select.
- 4 Edit the name, number, or detail to your preference and press OK.

Delete names and numbers

- 1 At the Start screen, press Names, scroll to Delete, and press Select.
- 2 To delete individual names and numbers, scroll to One by one and press Select.
- 3 Scroll to the entry you wish to delete, press Delete, and press OK to confirm the deletion.
- 4 To delete the entire contents of your Phone book, scroll to Delete all, then scroll to the phone book you wish to delete (Phone or SIM card).
- 5 Press Delete, then press OK to confirm. You are asked to enter the security code.
- 6 Enter the security code and press OK.

Add an image to a name or number

You can add an image to a name or number saved in the Phone book.

- 1 At the Start screen, press Names, scroll to an entry, and press Details.
- 2 Press Options and select Add image to open the Gallery.
- 3 Scroll to an image in the Gallery and press Options.
- 4 Select Save to phone book to add the image to a name or number.

• COPY PHONE BOOK ENTRIES

- 1 At the Start screen, press Names, scroll to Copy, and press Select.
- 2 Scroll to From phone to SIM card or From SIM card to phone and press Select. The following options appear in the display:

One by one	Select and copy entries one by one
All	Copies all entries from the SIM card or Phone
*Primary nos.	Copies only primary numbers. This appears only if you select From phone to SIM.

- 3 Scroll to the copy method of your choice and press Select.
 - a) If you selected One by one, go to step 4.
 - b) If you selected All or Primary nos., go to step 6.
- 4 Scroll to the entry you wish to copy and press Copy.
- 5 Scroll to Keep original or Move original and press Select. The entry is copied and you are returned to the list of Phone book entries.
- 6 If you selected All or Primary nos. in step 3, scroll to Keep original or Move original and press Select.
- 7 Press OK to confirm your choice. All entries are copied to the selected destination. Press Back to return to the list of Phone book entries, or press the End key to exit and return to the Start screen.



Caution: Select Keep original if you are unsure of which copy method to use. This ensures original entries are merely copied to the new location. Move original deletes files after copying.

Send and receive business cards

You can send and receive an entry in your Phone book via IR or text message, if supported by your wireless provider.

RECEIVE A BUSINESS CARD VIA IR

- 1 Press Menu 13-1 (Connectivity - Infrared) to ensure IR is activated.
When you receive the business card, your phone beeps and a message

appears in the display.

- 2 Select **Save** to save the business card in the phone's memory, or press **Exit** (or **OK**) to discard the business card.

SEND A BUSINESS CARD

You can send a business card via IR or as an text message to a compatible phone or other handheld device.

- 1 Highlight an entry from the Phone book that you wish to send and press **Details**.
- 2 Press **Options**, scroll to **Send bus. card** and press **Select**.
 - To send the business card via IR, make sure the receiving device is set up to receive data via its IR port and select **Via infrared**.
 - To send the business card as a message, select **Via text message**.
- 3 If you selected **Via infrared** (and the entry has multiple sub-entries) scroll to **Primary no.** or **All details** and press **Select**. Your business card is sent.
- 4 If you selected **Via text message** (and the entry has multiple sub-entries), scroll to **Primary no.** or **All details** and press **Select**.
- 5 Enter the number for your recipient or press **Find** to retrieve a number from your Phone book.
- 6 Press **OK** and the business card is sent.

• 1-TOUCH DIALING

You can associate any entry in your Phone book with the 2 key through the 9 key and then dial those entries by pressing and holding the assigned key.

Assign a key to 1-touch dialing

- 1 At the Start screen, press **Names**, scroll to **1-touch dialing** and press **Select**.

- 2** Scroll to any empty slot and press **Assign**.
- 3** Enter the number (including the area code) and press **OK**, or press **Find** to retrieve a number from your Phone book.
- 4** Enter a name for the number and press **OK**.
- If 1-touch dialing is off, the phone displays a prompt asking if you'd like to turn 1-touch dialing on. Press **Yes** to activate 1-touch dialing.
- 5** The entry appears in the slot you have assigned.

Make a call with 1-touch dialing

- Press and hold the key to which an entry has been assigned. Your phone dials the entry assigned to the key.

CHANGE 1-TOUCH DIALING NUMBERS

- 1** At the Start screen, press **Names**, scroll to **1-touch dialing** and press **Select**.
- 2** Scroll to the 1-touch dialing entry you wish to change and press **Options**.
- 3** Scroll to **Change** and press **Select**.
- 4** Enter the new number, or press **Find** to retrieve a number from your Phone book, and press **OK**.
- 5** Enter a name for the entry and press **OK**.

DELETE 1-TOUCH DIALING NUMBERS

- 1** At the Start screen, press **Names**, scroll to **1-touch dialing** and press **Select**.
- 2** Scroll to the 1-touch dialing location you wish to delete and press **Options**.
- 3** Scroll to **delete** and press **Select**. You are asked to confirm the deletion.
- 4** Press **OK** to delete the key assignment.

• VOICE DIALING

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



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

Assigning a voice tag to a phone number

You can create a voice tag (such as a person's name) for up to 10 phone book entries, then dial the number using the voice dialing feature. See "Dial a number using voice dialing" on page 101 for more information. It is 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.

ASSIGNING A VOICE TAG TO AN ENTRY

- 1 At the Start screen, scroll to the name you want to give a voice tag.
- 2 Press Details, then Options, and scroll to Add voice tag.
- 3 Press Select. The phone displays Press Start, then speak after tone.
- 4 Press Start.

You hear several beeps, and Please speak now appears.

- 5 Speak clearly into the microphone.



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

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

If recording is not successful, your phone displays **Voice system error**. Press Options, scroll to Add voice tag, and repeat Steps 3-5.

DIAL A NUMBER USING VOICE DIALING

Before using voice dialing, note that:

- Voice tags are not language-dependent. A voice tag depends on the speaker's voice.
- Voice tags are sensitive to background noise. For best results, record them and make calls in a quiet environment.
- When recording a voice tag or making a call by saying a voice tag, hold the phone in the normal position near to your ear.
- Very short names are not accepted. Use long names and avoid similar names for different numbers.
- Voice tags must be shorter than 2 seconds. Record them and make calls in a quiet environment.

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

- 1 Press and hold the **Contacts** selection key.

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

 **Note:** If you have the optional headset attached, press and hold the headset button. When the phone beeps and **Please speak now** appears, release the button.

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

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

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

WORK WITH AN EXISTING VOICE TAG

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

Play back a voice tag

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

Change a voice tag

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

Delete a voice tag

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

• VIEW INFO, SERVICE, AND OWN NUMBERS

Your wireless provider may have saved your phone's operating number, as well as various information and service numbers to your SIM card.



Note: This feature may not be supported by your SIM card. If so, contact your wireless provider for more information.

- 1 Press **Names** at the Start screen, scroll to one of the number types in the following table, and press **Select**.

Number type	Used this number to...
Info numbers	Contact your wireless provider to obtain information
Service numbers	Contact your wireless provider to obtain service
Own numbers	Display the operating number, or numbers which have been assigned to your phone by your wireless provider

- 2 To view details of any of the number types in the previous table, press **Details** when the number type appears in the display.

Caller groups

You can add Phone book entries to any of 5 caller groups, and then assign a unique ringing tone or graphic to that group. This enables you to identify callers from the group by their unique ringing tone or graphic. A caller group can be as small as one person or as large as your entire Phone book. Caller groups can be renamed to suit your preference.

CALLER GROUP OPTIONS

- 1 At the Start screen, press **Names**, scroll to **Caller groups**, and press **Select**. The following Caller groups are available.

Family VIP Friends Business Other

- 2 Use the scroll keys (the **Scroll up** key/the **Scroll down** key) to highlight a group. Press **Select** to display the following caller group options:

Rename group	Rename the group to your preference
Group ringing tone	Set the ringing tone for the group
Group logo	Turn the graphic for the caller group on or off
Group members	Add or remove members from the caller group

Setup a caller group

- 1** At the Start screen, press the **Scroll up** key or the **Scroll down** key to display a list of entries in your Phone book.
- 2**  **Tip:** Perform a "quick find" when Phone book entries are displayed by entering the first letter of a name.  appears at the bottom of the display to indicate you are performing a search.
- 3** Scroll to a name you'd like to add to a caller group and press **Details**.
- 4** Press **Options**, scroll to **Caller groups**, and press **Select**.
- 5** Scroll to the caller group to which you'd like to add the name and press **Select**. A confirmation message appears in the display.

Profiles (Menu 4)

Profiles define how your phone reacts when you receive a call or a message, how your keypad sounds when you press a key, and more. Ringing options, keypad tones, and other settings for each of the 5 available profiles can be left at their default setting, or customized to suit your needs. Select and customize the most suitable profile for your situation, such as when you are in a meeting or outdoors. The following profiles are available:

- Normal
- Silent
- Meeting
- Outdoor
- Pager

 **Note:** Profiles are also available for enhancements such as a headset and car kit. See "Enhancement settings" on page 121 for more information about enhancement profiles.

• SELECT A PROFILE

- 1 At the Start screen, press Menu 4 (Profiles).

After a brief pause, the list of profiles appears in the display.

- 2 Scroll through the available profiles and press Select once the profile of your choice is highlighted.
- 3 Scroll to Select and press Select.

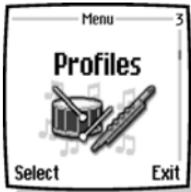
• CUSTOMIZE A PROFILE

You can customize any of the profiles a variety of ways.

- 1 At the Start screen, press Menu 4 (Profiles).

After a brief pause, the list of profiles appears in the display.

- 2 Scroll to the profile you wish to customize and press Select.
- 3 Scroll to Customize and press Select.



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



Note: You cannot rename the Normal profile.

Custom profile options

Ringing options	Select the ringing tone style
Ringing tone	Select the ringing tone for incoming calls
Ringing volume	Set the volume of your ringing tone
Vibrating alert	Turn the vibrating alert on or off
Message alert tone	Select the tone for received messages
Keypad tones	Set the volume of your keypad tones (or turn them off)
Warning tones	Turn warning and confirmation tones on or off
Alert for	Define which caller groups the selected profile will accept or decline. See "Caller groups" on page 104 for more information.
Profile name	Rename the profile (up to 16 characters)

• SET A TIMED PROFILE

Timed profiles can be used to prevent missed calls. For example, suppose you attend an event that requires your phone be set to **Silent** before the event starts, but you forget to return it to **Normal** until long after the event. During this time, you have missed several calls because the ringing tone was silent. A timed profile can prevent this by automatically returning your phone to the default profile at a time you specify.



Note: Timed profiles can be set up to 24 hours in advance.

- 1 At the Start screen, press **Menu 4 (Profiles)**.

After a brief pause, the list of profiles appears in the display.

- 2 Scroll to the profile you wish to activate and set for timed expiration, then press **Select**.

- 3 Scroll to **Timed** and press **Select**.

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

The profile you have set for expiration is now active and appears in the Start screen along with a small "clock" icon

Settings (Menu 5)

Use this menu to set or change the Right selection key (My Menu) settings, time and date settings, call settings, phone settings, display settings, tone settings, enhancement settings, security settings, and to restore factory settings.



• RIGHT SELECTION KEY SETTINGS

You can change the function of the Right selection key on your phone so that your most frequently used functions can be quickly accessed from the Start screen.

Choose functions

- 1 At the Start screen, press Menu 5-1 (Settings – Right selection key settings).
- 2 After a brief pause, Options is highlighted in the display. Press Select.
- 3 Use the Scroll up key and the Scroll down key to highlight the desired function from the list of available functions.
- 4 Press Mark. A mark appears in the box next to the selected function indicating that you have selected the function. Use Unmark to remove a function from the list.



Note: The Names function cannot be Unmarked from the list.

- 5 Repeat steps 3 and 4 to select as many functions as you wish.
- 6 Press Done when you have added all desired functions.
- 7 Save changes? appears in the display. Select Yes.

At the Start screen, Go to is now the option for the Right selection key on your phone. Select Go to to display a list of the functions that you selected in steps 4 and 5.

Organize functions

- 1 At the Start screen, press Menu 5-1 (Settings – Right selection key settings).
- 2 Scroll to **Organize** and press **OK**. The list of functions is displayed.
- 3 Use the **Scroll up** key and the **Scroll down** key to highlight the function you wish to rearrange and select **Move**.
- 4 Highlight **Move up**, **Move down**, **Move to top**, or **Move to bottom** from the list of choices and press **Select**.

The list of right selection key functions is displayed in the new order.

• TIME AND DATE

Set the clock

- 1 At the Start screen, press Menu 5-2-1 (Settings – Time and date settings – Clock).
After a brief pause, **Show clock** (or **Hide clock**) **Set the time**, and **Time format** appear in the display with **Show clock** (or **Hide clock**) highlighted.
- 2 Scroll to **Set the time** and press **Select**.
- 3 Enter the time (in hh:mm format) and press **OK**.
- 4 Scroll to **am** or **pm** and press **Select**. The time is set.

Show/hide the clock

You have the option of displaying (or not displaying) the clock on the Start screen.

- 1 At the Start screen, press Menu 5-2-1 (Settings – Time and date settings – Clock).
After a brief pause, **Show clock** (or **Hide clock**) **Set the time**, and **Time format** appear in the display with **Show clock** (or **Hide clock**) highlighted.
- 2 Press **Select**.

- If your clock was previously "hidden," (not shown on the display), it will now appear in the upper right corner of the Start screen.
- If your clock was previously shown in the display, it will now be hidden from view.

Change the time format

You can set the time format for am/pm or 24 hour format (military time).

- 1 At the Start screen, press Menu 5-2-1 (Settings - Time and date settings - Clock).
After a brief pause, Show clock (or Hide clock) Set the time, and Time format appear in the display with Show clock (or Hide clock) highlighted.
- 2 Scroll to Time format and press Select.
- 3 Scroll to 24-hour or am/pm and press Select. A message appears in the display confirming your selection.

Set the date

- 1 At the Start screen, press Menu 5-2-2 (Settings - Time and date settings - Date). After a brief pause, a list of options appears in the display.
- 2 Scroll to Set the date and press Select.
- 3 Enter the date and press OK. The date is set.

Set or change the date format

- 1 At the Start screen, press Menu 5-2-2 (Settings - Time and date settings - Date).
- 2 Scroll to Date format and press Select.
- 3 Scroll to the format of your choice and press Select.
- 4 Scroll to the date separator of your choice (period, slash, hyphen, or space) and press Select. A message appears in the display confirming your selection.

• CALL SETTINGS

Call forwarding

Call forwarding tells your network to redirect incoming calls to another number.



Note: Call forwarding is network-dependent and may not work the same in all networks. Contact your wireless provider for availability.

ACTIVATE CALL FORWARDING



Note: This is a network-dependent feature. All options listed in the following table may not appear in the display. Contact your wireless provider for more information.

- 1 At the Start screen, press Menu 5-3-1 (Settings - Call settings - Call forwarding).
- 2 After a brief pause, the forwarding options listed in the following table appear in the display.

Forward all voice calls	Forward all calls to the number you specify
Forward if busy	Forward incoming calls when you are in a call
Forward if not answered	Forward incoming calls to another number if you are unable to answer. You can also set a delay before forwarding takes place
Forward if out of reach	Forward incoming calls when your phone is off
Forward when not able to take calls	Forward calls that are not picked up. You can also set a delay before forwarding takes place
Forward all fax calls	Forward all fax calls to a fax mailbox
Forward all data calls	Forward all data calls to a data mailbox
Cancel all call forwarding	Cancel any call forwarding options you may have set

- 3 Scroll to the option of your choice and press **Select**.
- 4 Scroll to **Activate** and press **Select**.
- 5 Scroll to the destination to which your calls will be forwarded (such as **To other no.**) and press **Select**.
- 6 Enter the number to which your calls, data, or other information will be forwarded and press **OK**.

Your phone calls the network to activate the feature you have requested. The network sends a confirmation note when the feature has been activated successfully.

CANCEL CALL FORWARDING

- At the Start screen, press **Menu 4-2-1-8** (Settings - Call settings - Call forwarding - Cancel all call forwarding).

 **Note:** Cancel all call forwarding may affect your ability to receive voice mail messages. Contact your wireless provider for specific details.

Anykey answer

Anykey answer allows you to answer an incoming call by briefly pressing any key except the power key, the **Left selection** key, the **Right selection** key, and the **End** key.

- 1 At the Start screen, press **Menu 4-2-2** (Settings - Call settings - Anykey answer). After a brief pause, **On** and **Off** appear in the display.
- 2 Scroll to your choice and press **Select**.

Automatic redial

Occasionally, your network may experience heavy traffic, resulting in a "fast" busy signal when you dial. With automatic redial activated, your phone redials the number up to 10 times, and notifies you once the network becomes available.

ACTIVATE OR DEACTIVATE AUTOMATIC REDIAL

- 1 At the Start screen, press **Menu 5-3-3** (Settings - Call settings - Automatic redial). After a brief pause, **On** and **Off** appear in the display.

- 2 Scroll to your choice and press Select.

1-touch dialing

You can turn the 1-touch dialing feature on and off. For more information, please see "1-touch dialing" on page 99.

Call waiting

If supported by your wireless provider, call waiting notifies you of an incoming call even while you are in a call. You can then accept, reject, or ignore the incoming call.

ACTIVATE CALL WAITING

- 1 Press Menu, scroll to **Settings**, and press Select.
- 2 Scroll to **Call settings** and press Select.
- 3 Scroll to **Call waiting** and press Select.
- 4 Scroll to **Activate** and press Select.

USE CALL WAITING

- During a call, press the **Talk** key to answer the waiting call. The first call is put on hold.
- Press the **End** key to end the active call.

Activate/deactivate summary after call

Your phone can display the time spent on a call when you hang up.

TURN ON SUMMARY AFTER CALL

- 1 At the Start screen, press Menu 5-3-6 (Settings - Call settings - Summary after call).

After a brief pause, **On** and **Off** appear in the display.

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

TURN OFF SUMMARY AFTER CALL

- 1 At the Start screen, press Menu 5-3-6 (Settings - Call settings - Summary after call).

After a brief pause, **On** and **Off** appear in the display.

- 2 Scroll to Off and press Select.

Send my caller identity with next call

You can prevent your number from being displayed on the receiving party's caller ID. This feature is network-dependent and works on a call-by-call basis. Contact your wireless provider for more information.

- 1 At the Start screen, press Menu 4-2-7 (Settings - Call settings - Send my caller identity). After a brief pause, Default, Yes, and No appear in the display.
- 2 Scroll to the selection of your choice and press Select. A message appears in the display confirming your selection.

Select a line for outgoing calls



Note: This is a network-dependent feature. Check with your wireless provider for availability and a description of the feature.

- 1 At the Start screen, press Menu 4-2-8 (Settings - Call settings - Line for outgoing calls). After a brief pause, Line 1 and Line 2 appear in the display.

 **Important:** If you select Line 2 and have not subscribed to this network service, you will not be able to place calls. However, calls on both lines can be answered regardless of the selected line.

- 2 Scroll to Line 1 or Line 2 and press Select. A message appears in the display confirming your selection.



Tip: If supported by your SIM card, you can prevent the line selection by using the Lock option.

• PHONE SETTINGS

Set the display language

- 1 At the Start screen, press Menu 4-3-1 (Settings - Phone settings - Language).

After a brief pause, Automatic, English, Português, Español, and

Français appear in the display.

- 2 Scroll to the language of your choice and press Select.

 **Note:** The Language setting affects the time and date formats of the Clock, Alarm clock, and Calendar.

ACTIVATE OR DEACTIVATE AUTOMATIC KEYGUARD

 **Important:** When keyguard is on, it may be possible to dial emergency numbers (for example, 911 or other official emergency numbers). Key in the emergency number and press the Talk key. The number is displayed only after you have keyed in its last digit.

You can set the keypad of your phone to lock automatically after a preset time delay (from 10 seconds to 60 minutes). When the preset delay expires, the keypad locks automatically.

- 1 At the Start screen, press Menu 5-4-3 (Settings - Phone settings - Automatic keyguard). After a brief pause, On and Off appear in the display.
- 2 Scroll to On (or Off to deactivate) and press Select.
- 3 If you selected On, Set delay appears in the display.
- 4 Enter the delay (in minutes and seconds) and press OK.

Cell info display

 **Note:** Cell info display is network-dependent and may not work the same in all networks. Contact your wireless provider for availability.

When this function is selected, your phone will indicate when it is used in a system cell based on Micro- Cellular Network technology. MCN technology increases the capacity of wireless networks in urban areas. The setting will remain in effect even if the SIM card is changed or the phone is switched off.

- 1 Press Menu 5-4-4 (Settings - Phone settings - Cell info display). After a brief pause, On and Off appear in the display.
- 2 Scroll to On (or Off) and press Select. A message appears in the

display confirming your selection.

 **Note:** If the GPRS connection is set to Always online, info messages may not be received. In that case, set the GPRS connection to When needed, see "GPRS, HSCSD, CSD" on page 167 for more information.

Welcome note

You can write a welcome note which shows up briefly on your display whenever you power up your phone.

 **Note:** Predictive text input is unavailable for entering Welcome note text.

- 1 At the Start screen, press Menu 5-4-5 (Settings - Phone settings - Welcome note).

After a brief pause, the message edit screen appears in the display awaiting text input.

- 2 Enter a note (up to 44 characters).
- Press the **Star** key to display and select from available special characters. For more information on special characters, "Enter punctuation and special characters" on page 51.
- 3 When you are finished, press **Options**, scroll to **Save**, and press **Select**. Scroll to **Delete** and press **Select** if you want to delete the previous text and begin writing another note.

System selection

You may be able to manually search for another network which has a roaming agreement with your home wireless provider.

- 1 At the Start screen, press Menu 4-3-5 (Settings - Phone settings - System selection). After a brief pause, **Automatic** and **Manual** appear in the display.

2 Scroll to Automatic or Manual and press Select.

Option	Function
Automatic	Your phone defaults to those settings which have been preset by your wireless provider
Manual	Your phone searches for a network which has a roaming agreement with your wireless provider

 **Note:** If No system access appears in the display, you'll need to switch to Automatic mode, or insert another SIM card into the phone.

Confirm SIM service actions

This option allows you to request notification when your service provider makes changes to SIM-related services (such as activating GPRS service).

- 1 Press Menu 5-4-7 (Settings - Phone settings - Confirm SIM service actions). After a brief pause, Yes and No appear in the display.
- 2 Scroll to the selection of your choice and press Select. A message appears in the display confirming your selection.

Help text

Your phone displays brief descriptions for most menu items. When you arrive at a feature or menu, pause for about 10 seconds. Use the scroll keys to page through the full help text, if necessary.

ACTIVATE/DEACTIVATE HELP TEXT

The default setting for Help text is On. However, you can turn help text on or off by doing the following from the Start screen.

- 1 Press Menu 5-4-8 (Settings - Phone settings - Help text activation). After a brief pause, On and Off appear in the display.
- 2 Scroll to your choice and press Select. A message appears in the display confirming your selection.

You can set your phone to play (or not to play) a start-up tone when the phone is switched on.

- 1 At the Start screen, press **Menu 5-4-9** (Settings - Phone settings - Start-up tone). After a brief pause, **On** and **Off** appear in the display.
- 2 Scroll to your choice and press **Select**. A message appears in the display confirming your selection.

• **DISPLAY SETTINGS**

Wallpaper

You can set your phone to display a background picture (wallpaper) on the Start screen. Some pictures are pre-saved in the **Gallery** menu. You can also receive pictures via multimedia message, download them from web browser pages or transfer them with PC Suite from your PC and then save them in the **Gallery**. Your phone supports JPEG, GIF, BMP, PNG, and WBMP formats.

SELECT WALLPAPER

- 1 Press **Menu 5-5-1** (Settings - Display settings - **Wallpaper**). After a brief pause, **On**, **Off**, and **Change image** appear in the display.
- 2 Scroll to **Change image** and press **Select** to browse the gallery for another image.
- 3 Use the scroll keys (the **Scroll up** key/the **Scroll down** key) to browse the image gallery. When you arrive at the image of your choice, press **Options**, scroll to **Set as wallpaper**, and press **Select**.
- 4 If **Replace current wallpaper?** appears in the display, press **OK**. A message appears in the display confirming your selection.

ACTIVATE/DEACTIVATE WALLPAPER

- 1 Press **Menu 5-5-1** (Settings - Display settings - **Wallpaper**). After a brief pause, **On**, **Off**, and **Change image** appear in the display.
- 2 Scroll to **On** or **Off** and press **Select**.

Color schemes

You can change the color of some display components in your phone, such as indicators and signal bars.

- 1 At the Start screen, press **Menu 5-5-2** (Settings - Display settings - Color Schemes). After a brief pause, a list of color schemes appear in the display.
- 2 Scroll to the color scheme of your choice and press **Select**. A message appears in the display confirming your selection.

Screen saver

The screen saver is activated when no function of the phone is used after a preset period of time. Press any key to deactivate the screen saver. The screen saver is also deactivated when the phone is out of the network coverage area.

You can set your phone to display a screen saver after a preset time or after a custom time (up to 60 minutes) of your choosing.

- 1 At the Start screen, press **Menu 5-5-3** (Settings - Display settings - Screen saver timeout). After a brief pause, **2 minutes**, **5 minutes**, and **Other** appear in the display.
- 2 Scroll to **2 minutes** or **5 minutes** and press **Select**.
- 3 If you want to set a custom time (up to 60 minutes), scroll to **Other** and press **Select**. Enter the custom time and press **OK**. A message appears in the display confirming your selection.

Display brightness

You can change the brightness of your phone's display.

- 1 Press **Menu 4-4-5** (Settings - Display settings - Display brightness). After a brief pause, a bar chart appears in the display indicating the current brightness level.
- 2 Use the left and right scroll keys (the **Left selection key** and the **Right selection key**) or the side volume keys to adjust the contrast level to your preference.

- 3 Press **OK** to accept your settings.

• TONE SETTINGS

You can adjust the ringing volume, keypad tones, and more for the currently active profile. Please see "Customize a profile" on page 106.

• ENHANCEMENT SETTINGS

The Enhancement settings menu is shown only if the phone is or has been connected to one of the compatible enhancements such as the headset, handsfree, or music stand.

- 1 At the Start screen, press **Menu 5-7** (Settings - Enhancement settings). The following options may be available:
- 2 Scroll to **Headset**, **Handsfree** or **Music stand** and press **Select**.

Headset

The following options are available. Scroll to the option of your choice and press **Select** to enter the option's submenu and modify its settings.

- **Default profile** - Choose the profile you wish to be automatically activated when a headset is connected
- **Automatic answer** - Calls are answered automatically after 1 ring when a headset is connected. Scroll to **On** or **Off** and press **Select**

Handsfree

The following options are available. Scroll to the option of your choice and press **Select** to enter the option's submenu and modify its settings.

- **Default profile** - Choose the profile you wish to be automatically activated when your phone is connected to a car kit.
- **Automatic answer** - Calls are answered automatically after 1 ring when a car kit is connected. Scroll to **On** or **Off** and press **Select**.
- **Lights** - Choose to keep the phone lights always on, or to shut off automatically after several seconds. Scroll to **On** or **Automatic** and press **Select**.

Music stand

The following options are available. Scroll to the option of your choice and press **Select** to enter the option's submenu and modify its settings.

- **Default profile** - Choose the profile you wish to be automatically activated when your phone is connected to the music stand.
- **Automatic answer** - Calls are answered automatically after 1 ring when the phone is connected. Scroll to **On** or **Off** and press **Select**.
- **Lights** - Choose to keep the phone lights always on, or to shut off automatically after several seconds. Scroll to **On** or **Automatic** and press **Select**.

• SECURITY SETTINGS

For information about security features, see "Phone security" on page 54.

• RESTORE FACTORY SETTINGS

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

- 1 At the Start screen, press **Menu 5-9 (Settings - Restore factory settings)**. After a brief pause, you are prompted to enter the security code.
- 2 Enter the security code (the default security code is 12345) and press **OK**. A message appears in the display confirming that original settings have been restored.

 **Note:** Data that you have entered or downloaded is not deleted. For example, names and numbers in your Phone book are not affected.

Radio (Menu 6)

To listen to the FM radio on your phone connect the DT-1 music stand, HDS-3 stereo headset, HDB-4 boom headset to the connector on the bottom of the phone. The leads of the headset function as the antenna, so let it hang freely.



- ▶ **Note:** Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.
- ▶ **Note:** The quality of a radio broadcast depends on coverage of the radio station in that particular area.

• TURN THE RADIO ON AND OFF

- At the Start screen, press Menu 6 (Radio).
- To turn off the radio, press and hold the End key.

• USE THE RADIO

- ▶ **Note:** When you place or receive a call, the radio automatically mutes. Once the call is ended, the radio automatically switches back on.

With the radio on, press **Options** to choose from the options listed in the following table. Press the **Scroll up** key or the **Scroll down** key to scroll to an option. Press **Select** to activate the option or enter its submenu.

Option	Function
Turn off	Turn off the radio
Save channel	Save the current station to one of 20 locations
Automatic tuning	Briefly press either scroll key to start the channel search up or down. Press OK when a channel is found.

Option	Function
Manual tuning	Press the Scroll up key or the Scroll down key to search in increments of 0.1 Mhz
Set frequency	Manually enter the frequency of a known radio station
Delete channel	Delete a saved channel
Loudspeaker	Listen to the radio through the speakerphone
Mono output/ Stereo output	Listen to the radio in monaural mode. If already in manual mode, Stereo output appears in the display



Tip: To set the radio frequency, press the **Star** key with the radio on.



Tip: To tune the radio manually, press the **Pound** key with the radio on.



Note: When an application using a GPRS connection is sending or receiving data, it may interfere with the radio.

• SAVE A RADIO CHANNEL

You can save a preset station to any one of 20 locations in memory, and then tune to that station by simply pressing the **Scroll up** key or the **Scroll down** key with the radio on.

- 1 With the radio on, press and hold the **Scroll up** key or the **Scroll down** key to start the channel search. Searching stops when a channel is found.
- 2 To save the channel, press **Options**, scroll to **Save channel**, and press **Select**.
- 3 Enter a name for the channel and press **OK**.
- 4 Next, scroll to an **(empty)** location to save the channel and press **Select**.



Tip: To quickly save an FM station to a memory location from 1 to 9, press and hold the corresponding number key while the radio is playing. Then, enter the name of the channel and press OK.

Camera (Menu 7)

In this menu you can take photos with the phone's built-in camera and adjust its settings. The camera lens is on the back of the phone, and the display of the phone works as a viewfinder. The camera produces JPEG images.



- ☞ **Note:** Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.
- ☞ **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

If there is not enough memory to take a new photo, you need to free some by deleting old photos or other files in the gallery.

- ☞ **Note:** Obey all laws governing the taking of pictures. Do not use this feature illegally.

• CAMERA SETTINGS

- At the Start screen, press Menu 8 (Camera), then select Settings. After a brief pause, the submenus in the following table appear in the display.

Option	Function
Image quality	Defines how much the photo file will be compressed when saving the image. Select <i>High</i> , <i>Normal</i> , or <i>Basic</i> . <i>High</i> provides the best image quality but takes more memory.
Camera sounds	Sets the shutter sound and the self timer tone to <i>On</i> or <i>Off</i> .

Option	Function
Default title	Defines the title that will be used when saving a photo. If you select <i>Automatic</i> , the default title will be used, or if you select <i>My title</i> , you can key in or edit a new title.

• TAKE A PHOTO

- 1 Press Menu, and select Camera and Standard photo or Portrait photo.
- 2 The live image appears on the display, and you can use the display as a viewfinder.
- 3 To take a photo, press Capture. When taking a photo, a shutter sound is heard. The phone saves the photo in the Photos folder of the Gallery menu. The saved photo will be shown on the display.
- 4 Select Back to take another photo, or press Options and select, for example, an option to delete or rename the saved photo, send it as a multimedia message, or access the gallery.



Tip: To open the camera viewfinder quickly with standard photo view, press the Scroll up key at the Start screen.



Tip: To activate the self timer of the camera, press Menu, and select Camera, Self-timer, and Standard photo or Portrait photo. Press Start, and after the timeout, the camera takes the photo and saves it in the Gallery menu. While the self timer is running, a beeping sound is heard.

Gallery (Menu 8)

You can save pictures and ringing tones to folders in the gallery, or create folders of your own and save them there. You can download images and tones via MMS, web sites, or Nokia PC Suite.



- ➡ **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.
- ➡ **Note:** Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

• OPEN THE GALLERY

At the Start screen, press Menu 8 (Gallery). After a brief pause, the submenus in the following table appear in the display.

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

- ➡ **Note:** The phone tries to connect to the Internet using your web browser and the currently active set of gallery downloads. If the connection fails, you may need to activate another set or change the current settings. See "Set up for browsing" on page 172 for more information.

• VIEW FOLDERS

- 1 At the Start screen, press **Menu 7-1**(Gallery - View folders), and then press **Select**. A list of folders appear in the display.
- 2 Scroll to a folder, such as **Images** or **Tones** and press **Open**.
- 3 Scroll through the list of images or tones, and press **Options**. Press **Select** to activate the option or to enter its submenu.

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

Organizer (Menu 9)

Your phone has many useful features for organizing your everyday life, including an alarm clock, a calendar and a to-do list.



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

• ALARM CLOCK

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

IF AN ALARM HAS NOT BEEN SET

- 1 At the Start screen, press Menu 9-1 (Organizer - Alarm clock). After a brief pause, you are prompted to enter a time for the alarm.
- 2 Enter the time for the alarm in hh:mm format and press OK.
- 3 Scroll to **am** or **pm** and press **Select**. **Alarm on** appears briefly in the display and  appears on the Start screen.

IF AN ALARM HAS PREVIOUSLY BEEN SET

- 1 At the Start screen, press Menu 9-1 (Organizer - Alarm clock). After a brief pause, **On** and **Off** appear in the display.
- 2 Scroll to **On** and press **Select**. You are prompted to set the alarm time.
- 3 Enter the time for the alarm in hh:mm format and press **OK**.
- 4 Scroll to **am** or **pm** and press **Select**. **Alarm on** appears briefly in the display and  appears on the Start screen.

When the alarm sounds

Your phone beeps, vibrates, and the display lights up. **Stop** and **Snooze** appear in the bottom of the display.

WITH THE PHONE ON

Press **Stop** to shut the alarm off.

OR

Press **Snooze**. The alarm stops for 10 minutes and **Snoozing** appears in the display.



Note: If you do not press a key, the alarms stops (snoozes) for 5 minutes, and then sounds again.

WITH THE PHONE OFF

- 1 The alarm sounds. If you press **Stop** the following appears in the display:

Switch the phone on?



Note: The phone will only power up if you select **Yes** when **Switch the phone on?** appears in the display.

- 2 Press **Yes** to power up the phone. Press **No** to keep it switched off.



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

Turn off an alarm that has been set

- 1 At the Start screen, press **Menu 9-1** (Organizer - Alarm clock). After a brief pause, **On** and **Off** appear in the display.
- 2 Scroll to **Off** and press **Select**. **Alarm off** appears briefly in the display.

• CALENDAR

The calendar keeps track of reminders, calls you need to make, meetings, and birthdays. It can even sound an alarm for any of these events.



Note: This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

OPEN THE CALENDAR

At the Start screen, press Menu 9-2 (Organizer - Calendar). After a brief pause, the **Monthly** view appears in the display with the current date highlighted by a black box.

Jan 2002							wk 4
Mo	Tu	We	Th	Fr	Sa	Su	
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	

Options

Back

Monthly view

 **Tip:** To open the Calendar quickly, press the Right selection key at the Start screen.

USE FOUR-WAY SCROLLING

You can move the cursor in some calendar views by using the four-way scroll keys like a joystick. Please see "Understand the terms" on page 16.

Monthly view

Monthly view provides an overview of the selected month and weeks. It also allows you to jump to a specific date. Any days or dates that appear in bold font contain calendar notes such as a meeting or reminder.

Go to a date

- 1 Press Menu 9-2 (Organizer - Calendar). After a brief pause, the monthly view appears in the display.
- 2 Press Options, scroll to Go to date, and press Select.
- 3 Enter the date (for example 12/15/2002) and press OK. The monthly view appears in the display with the "jump date" highlighted.

Make a note for a specific date

You can choose from five types of notes; Meeting, Call, Birthday, Memo, and Reminder. Your phone asks for further information depending on which note you choose. You also have the option to set an alarm for any note that you select.

 **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

- 1 Go to the date for which you want to set a reminder. See "Go to a date" in the previous section if you need more information.
- 2 From the monthly view (with the go to date highlighted), press Options.
- 3 Scroll to **Make a note**, and press Select.
- 4 Scroll to one of the following note types and press Select



Meeting



Call



Birthday



Memo



Reminder

- 5 Enter your note, press Options, scroll to **Save**, and then press Select.
 - For a **Meeting** note, you are prompted to enter a subject, location, and then a start/end time. You are then given the option to set an alarm.
 - For a **Call** note, you are prompted to enter a phone number, a name, and the time. You are then given the option to set an alarm.
 - For a **Birthday** note, you are prompted to enter the person's name, and year of birth. You are then given the option to set an alarm.
 - For a **Memo** note, you are prompted to enter a subject and then an end date. You are then given the option to set an alarm.
 - For a **Reminder** note, you are prompted to enter the subject you wish to be reminded about, you are then given the option to set an alarm.

View calendar notes – the Day view

After you have created some calendar notes, you can view them as follows:

- 1 At the Start screen, press Menu 9-2 (Organizer - Calendar).
After a brief pause, the monthly view appears in the display with the current date highlighted. Any dates that contain calendar notes will be in bold font.
- 2 Use four-way scrolling to go to the date containing the note.
- 3 Press Options, scroll to **View day**, and press Select. Any notes you have for the day will appear in a list format.

- 4 To view the body of a highlighted note, press Options, scroll to View and press Select.

Options while viewing a list of notes

- 1 Press Options while viewing a day's notes to display those options listed in the following table.
- 2 Scroll to an option. Press Select to activate the option or to enter its submenu.

Calendar note options

View	View the full note
Make a note	Make another note for the selected date
*Delete	Delete the note
*Edit	Edit the note
*Move	Move the note to another date on your calendar
*Repeat	Enable the note to recur on a regular basis (daily, weekly, bi-weekly, monthly, and yearly)
Go to date	Jump to another date on your calendar
*Send note	Send the note to another device via Infrared or as a text message or in vCal format
*Copy	Copy the note. You can then "paste" the note to another date
*Settings	Set the date and time, date and time format, the day each week starts, and whether you want your notes to auto-delete after a specified time
Go to to-do list	Takes you to the to-do list for today's date

*Indicates an option that is available only while viewing the body of a note (not the header).

Send a Calendar note to another device

SEND A NOTE VIA INFRARED OR TEXT MESSAGE



Note: If sending via IR (infrared), ensure the other device is set to receive data via IR. For more information on enabling the receiving device's IR, refer to the user guide for the receiving device.

- 1 At the Start screen, press Menu 9-2 (Organizer - Calendar). After a brief pause, the monthly view appears in the display.
- 2 Jump, or scroll to the date containing the note you wish to send.



Tip: Any days containing notes will be in bold font.

- 3 Press Options, scroll to View day, and press Select.
- 4 Scroll to the note you wish to send and press Options.
- 5 Scroll to Send note and press Select.
- 6 Scroll to Via Infrared, As note, or As text message, and press Select.
- 7 If you selected Via Infrared, align the infrared ports of both devices and press Select. The note is sent.
- 8 If you selected As note, enter the number for the recipient (or press Find to retrieve a number from your Phone book), and press OK. The note is sent.
If you selected As text message, the note appears in the display.
- 9 Press Options, scroll to Send, and press Select.
- 10 Enter the number for the recipient (or press Find to retrieve a number from your Phone book), and press OK. The note is sent.

RECEIVE CALENDAR NOTES FROM ANOTHER DEVICE

When you receive a Calendar note, your phone displays **Calendar note received**. You can then save the note in your Calendar and set an alarm for any date and time.

VIEW RECEIVED CALENDAR NOTES

- 1 When your phone displays **Calendar note received**, press **Show**.
- 2 The text of your note appears in the display. Use the scroll keys to view the entire message, if necessary.

SAVE RECEIVED CALENDAR NOTES

- 1 After viewing the **Calendar note**, press **Options**.
- 2 Scroll to **Save** and press **Select**.

DISCARD VIEWED CALENDAR NOTES

- 1 After viewing the **Calendar note**, press **Options**.
- 2 Scroll to **Discard** and press **Select**.

• MAKE A TO-DO LIST

 **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.

You can keep track of your tasks with the to-do list feature. You may be able to save up to 30 notes, depending on their length.

 **Note:** To-do notes are not related to specific dates.

Add a to-do note

- 1 At the Start screen, press **Menu 9-3 (Organizer - To-do list)**.
- 2 After a brief pause, press **Options**. If this is your first time to use the to-do list, **Add** is highlighted. You can also go to the **Calendar**.
- 3 Press **Select**, enter your to-do note and press **Options**.
- 4 Scroll to **Save** and press **Select**.
- 5 Scroll to **High**, **Medium**, or **Low** priority and press **Select**. The to-do note is saved.

Options while viewing notes

Press **Options** while viewing the header or body of a particular note and the following options appear in the display.

Header view	Option	Body view	Option
-------------	--------	-----------	--------

View	View the body of a note	Edit	Edit the content of a note
Add	Add another note	Set deadline	Set a deadline for the note
Delete	Delete the note	Mark note as done	Mark a note or task as complete; no more reminders will follow
Sort by deadline	Sort the notes according to their deadline	Delete	Delete the note
Send	Send the note as a text message	Edit priority	Change the priority to high, medium, or low
Go to calendar	Leave the to-do list and go to the calendar	Send	Send the note as a text message
Save to calendar	Save the to-do note to a date on your calendar	Go to calendar	Leave the to-do list and go to the calendar
N/A	N/A	Save to calendar	Save the to-do note to a date on your calendar

Games (Menu 10)

Challenge yourself or a friend to one of the two fun games in your phone: Bounce and Triple Pop!



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

- 1 At the Start screen, press Menu 10 (Games). After a brief pause, the list of game submenus in the following table appear in the display.
- 2 Scroll to a submenu. Press Select to enter the submenu and choose other settings.

► **Note:** Some menus listed in the following table are network-dependent. Contact your wireless provider for more information.

Submenu	Function
Select game	Select a game or enter a game's option list. See "Game options" on page 139 for more info on game options
Game downloads	Connect to game downloads on the Internet using your web browser
Memory	Check the available memory for games and game related applications
Settings	Turn game sounds, lights, and shakes on or off

Use the Game downloads menu

- At the Start screen, press Menu 10-2 (Games - Game downloads). After a brief pause, your phone connects to the web pages using the currently active set of web browser settings.



Note: If the connection fails, you may enter the Services menu and activate another set of service settings. See "Use browser options" on page 173 for more info on browser settings.

• LAUNCH A GAME

- 1 Press Menu 9-1 (Games - Select game). After a brief pause, a list of games appears in the display.
- 2 Scroll to a game and press the **Talk** key. If the selection is a single game it will launch. Otherwise, a list of games within the selected game set appears in the display. To launch a single game, scroll to the desired game and press the **Talk** key.



Tip: If a game uses the whole display area, selection keys such as **Options** or **Back** will not appear in the display. Press the **Left** selection key or the **Right selection** key to show the options keys **Select** or **Back** (returns to the game).

Game options

- While viewing the games list, press **Options** to display those listed in the following table. Scroll to an option and press **Select** to activate the option or enter its submenu.

Option	Function
Open	Play the game
Delete	Delete the game
Web access	Options for restricting network access
Check version	Display the version of the highlighted game
Details	Display details of the game

• GAMES

Bounce

Guide the ball past many obstacles to pass through all the hoops and open the door to the next level. Use key 4 to move the ball left, key 6 to move the ball right, and key 2 to bounce the ball. Watch out for spikes! Use deflators to shrink the ball and inflators to return to normal size. Large balls float in water, small balls do not. Collect crystals for extra points and to store your game position. Collect crystal balls to give your ball an extra life. Jump and speed boosts temporarily boost your powers while rubber floors give you extra bounce.

Triple Pop

You are in control of a circular heap of bubbles which has a black stone at its center. During the game, bubbles appear from all around, moving towards the center and sticking to the heap. The heap can be rotated by using keys 1 and 3. The heap grows until it crosses the circular boundary at which point the game is over.

There are four different colors of bubbles. Chains of three or more bubbles of the same color pop and vanish. Each popped bubble is worth five points. Watch out for white bubbles later on in the game! White bubbles will not pop if you line up three or more of them, but they will burst if bubbles of another color pop next to them.

Bubbles stuck in the heap for too long will turn to stone. Stone bubbles cannot be popped with anything except a special bonus bubble. The bonus bubble gauge is filled by popping long chains of bubbles. The longer the chain, the bigger the bonus.

There are four different bonus bubbles that can be launched by pressing key 2. The first bonus bubble pops bubbles adjacent to where it hits the heap. The second bonus bubble pops a ring of bubbles around the heap at the level it hits. The third bonus bubble pops bubbles from where it hits to the center stone. The last bonus bubble pops all bubbles in and above the ring that it hits.

Applications (Menu 11)

You will find useful Java™ utilities pre-installed on your phone. Also, you can manage and download new applications that may be offered by your wireless provider.



- The phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.
- **Note:** This feature uses shared memory. Please see "Shared memory" on page 24 for more information.
- **Note:** For currency conversion, please see "Use the currency converter" on page 146 for more information.

• LAUNCH AN APPLICATION

- 1 At the Start screen, press Menu 11-1 (Applications - Select application). After a brief pause, one or more applications appear in the display.
- 2 Scroll to an application or an application set and press Options, or press the Talk key.
- 3 If the selection is a single application it will be launched. Otherwise, a list of applications in the selected application set is displayed.

- To launch a single application within the set, scroll to the desired application and press Options, then press Select or the Talk key.

• APPLICATION OPTIONS

Option	Function
Open	Opens the selected application or application set
Delete	Delete the application or application set from your phone.
Web access	Provides options for restricting network access Ask first (ask for net access) Allowed (allow net access) Not allowed (to not allow net access)
Check version	Check if a new version of the application is available for download
Web page	Provides further information or data for the application from an Internet page; this feature is network-dependent and only appears if an Internet address has been provided with the application
Details	Shows additional information about the application

 **Note:** An application may require a few seconds to load. When you open an application, please wait for the launch screen to disappear. At that point, the application is ready.

• DOWNLOAD APPLICATIONS

You can download new Java™ applications in different ways.

Use Application downloads

- 1 At the Start screen, press Menu 11-2 (Applications - App. downloads). After a brief pause, the list of available web browser bookmarks appears in the display.

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

- Scroll to **More bookmarks** (if necessary) and press **Select** to access the list of web browser bookmarks in your **Services** menu.
- 2 Scroll to the appropriate bookmark that contains the application you wish to download, and press **Select** to connect to the web page. See "Navigate the wireless Internet" on page 173 for information on browsing web pages.



Note: If the connection fails, you may enter the **Services** menu and activate another set of service settings. See "Use browser options" on page 173 for more info on browser settings.

Use PC Suite

Use the JavaTM Application installer from PC Suite to download the applications in your phone.



Note: Nokia does not warrant for applications from non-Nokia sites. If you choose to download Java applications from non-Nokia sites, take precautions for security or content.



Note: When you download a game or an application, it may be saved in the **Games** menu instead of the **Applications** menu.

Memory status for applications

You can view the size of memory available for game and application installations.

At the Start screen, press **Menu 11-3 (Applications - Memory)**. After a brief pause, the amount of free memory appears in the display.

• CONVERTER II

This application converts many common unit types.

- Switch the conversion direction with the **Scroll up** key and the **Scroll down** key.
- Press the **Star** key for the minus (-) sign. Press the **Pound** key for the decimal point.

- Change the type of unit conversion, or create new conversion types, with the **Configure** command.

Option	Function
Change sign	Toggles the value of the unit from positive (+) to negative (-) and vice versa.
Instructions	Displays instructions for use.
Configure	Provides options for unit conversion.
Set conv.	<p>Sets a unit conversion to a certain state that will always occur when you enter the application:</p> <ul style="list-style-type: none"> • Temperature (Fahrenheit, Celsius, Kelvin). • Currency (Dollar (USD), Euro (EUR), Pound (GBP), Swiss franc (CHF), Yen (JPY)). • Weight (Ounce, pound, carat, Troy oz., Stone, gram, kilo). • Length (Inch, foot, yard, mile, Nautical mile, mm, cm, meter, km). • Area (square inch, foot, yard, mile, cm, meter, km, and Hectare, Acre). • Volume (cubic inch, foot, yard, cm, meter). • Other (create a new conversion type).
Reverse conv.	Toggles the unit conversion.
Clear all	Resets the application.

Extras (Menu 12)

Extras include a calculator with currency exchange rate converter, countdown timer, stopwatch, mobile wallet, synchronize tool, voice recorder, and voice commands.



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

• CALCULATOR

The calculator in your phone adds, subtracts, multiplies, divides, counts the square and the square root and converts currency values.



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



Note: Calculator has a limited accuracy and rounding errors may occur, especially in long division.

- 1 Press **Menu 12-1** (Extras - Calculator). After a brief pause, the calculator screen appears in the display.
- 2 Enter the first number in the calculation. Press the **Pound** key for a decimal point if necessary.
- 3 Press the **Star** key to cycle through the add (+), subtract (-), multiply (*), and divide (/) characters. Pause briefly to select the displayed character.
- 4 **Note:** To perform a square or square root calculation, press **Options**, scroll to **Square** or **Square root** and press **Select**.
- 5 Enter the second number in your calculation.
- 6 Press **Options**. **Equals** is highlighted. Press **Select**. The sum of your

calculation appears in the display.

Use the currency converter

You can convert foreign currency to domestic, or vice versa directly from the Start screen.

- 1 At the Start screen, enter a currency amount to convert.
- 2 Press **Options**, scroll to one of the following and press **Select**:

To home	Converts foreign currency to domestic currency
To foreign	Converts domestic currency to foreign currency

If you have not done so already, you are prompted to enter the exchange rate.

- 3 Enter the exchange rate and press **OK**. Press the **Pound** key to insert a decimal. The converted amount appears in the display.

Edit the exchange rate

- 1 At the Start screen, press **Menu 12-1** (Extras > Calculator). After a brief pause, the calculator screen appears in the display.
- 2 Press **Options** (**Exchange rate** is highlighted), then press **Select** and scroll to highlight or display one of the following options:

Foreign units in home units	Enter the number of home units it takes to make one unit of foreign currency
Home units in foreign units	Enter the number of foreign units it takes to make one unit of your home currency

- 3 Press **Select** to edit your choice.
- 4 Enter the exchange rate and press **OK**. The exchange rate is saved.

• COUNTDOWN TIMER

The countdown timer is like an egg-timer or the timer on your microwave oven. You can enter a specified time (up to 99 hours and 59 minutes), and when the time runs out, your phone sounds an alarm.



Note: Your phone must be switched on to use this function.

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



Note: The countdown timer only works when the phone is on.

Once you turn off your phone, the timer is no longer active.

Set the countdown timer

- 1 At the Start screen, press **Menu** 12-2 (Extras - Countdown timer).
- 2 After a brief pause, you are prompted to enter the time. Enter 2 digits for hours, 2 digits for minutes, then press **OK**.
- 3 Enter a note for the timer, then press **OK**. The timer begins running.

CHANGE THE TIME

After you have set the timer, you can change the time.

- 1 At the Start screen, press **Menu** 12-2 (Extras - Countdown timer). After a brief pause, **Change time** and **Stop timer** appear in the display.
- 2 Scroll to **Change time** and press **Select**.
- 3 Enter the new time and press **OK**.
- 4 Leave the note as it was, or enter a new note and press **OK**. The timer begins running.

WHEN THE ALARM SOUNDS

When the time runs out, your phone sounds an alarm, displays the timer note, and flashes its lights.

- Press any key during the alarm to stop the timer.
- After 30 seconds the timer alert expires automatically.

STOP THE TIMER BEFORE THE ALARM SOUNDS

- 1 At the Start screen, press **Menu 12-2** (Extras - Countdown timer). After a brief pause, **Change time** and **Stop timer** appear in the display.
- 2 Scroll to **Stop timer** and press **Select**. **Timer stopped** appears in the display.

• **STOPWATCH**

Your phone has a stopwatch that can be used to track time at sporting events or other occasions. The stopwatch displays time in hours, minutes, seconds and fractions of a second. 00:00:00:0



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

Note about stopwatch operation

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

If you press the **End** key and return to the Start screen, the clock continues to run in the background and the  icon appears in the upper left corner of the screen.

To return to the Stopwatch screen, take the following steps:

- 1 Press **Menu 12-3** (Extras - Stopwatch). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Continue** and press **Select**.
 - To stop the clock, press **Stop**.

Measure time

- 1 Press **Menu 12-3** (Extras - Stopwatch). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Split timing** and press **Select**.

- 3 Press **Start** to begin split timing. The running time appears on the screen.

Measure split time

You can use the split time function for such things as a long distance race when you need to pace yourself.

- 1 Press **Menu 12-3** (Extras - Stopwatch). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Split timing**, then press **Select**.
- 3 Press **Start**.
- 4 Take an intermediate time by pressing **Split**. The timer continues to run. The split time appears below the running time.

If you split the time more than once, the new measured time appears at the beginning of the list. You can scroll to see previous measured times.

Measure lap time

You can use the lap time function when you want to track how long it takes to complete each cycle or lap.

- 1 Press **Menu 12-3** (Extras - Stopwatch). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Lap timing** and press **Select**.
- 3 Press **Start**. The running time appears on the screen.
- 4 Take a lap time by pressing **Lap**.

The clock stops, then starts immediately from zero. The lap time appears below the running time.

If you take more than 1 lap time, the new measured time appears at the beginning of the list. You can scroll to see previous measured times. When you press **Stop**, the total time appears at the top.

SAVE THE LAP TIME

- 1 While the clock is running, press **Stop**, then press **Options**.
- 2 Scroll to **Save** and press **Select**.

3 Enter a name for the measurement and press **OK**. If you do not enter a name, the total time is used as the default title for the lap time.

STOP THE LAP TIMER

Press **Stop** to end the lap timer.

Choose other stopwatch options

You can choose the following options when using the Stopwatch.

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

Note about stopwatch operation

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

If you press the **End** key and return to the Start screen, the clock continues to run in the background and the  icon appears in the upper left corner of the screen.

To return to the Stopwatch screen, take the following steps:

- 1 Press **Menu 12-3** (Extras - Stopwatch). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Continue** and press **Select**.
- To stop the clock, press **Stop**.

• **WALLET**

Your phone's Wallet feature allows you to store personal information, like debit and credit card information to an encrypted area of your phone's memory. This information can then be used to make secure online purchases. Wallet purchases can also utilize digital signatures enabled by a security module in the sim card (if present) for signing and verifying transactions. Online purchases and digital signature capabilities are dependent upon your wireless provider.



Other Wallet features

You can also store important information in a Wallet personal note. Security features such as a password and data encryption make it ideal for storing personal information such as PIN codes and other sensitive data.

Wallet security

To protect yourself against unauthorized use of the wallet content/information, you can require a code to be entered each time you use Wallet. See "Activate Code Request" on page 152 for instructions.

Wallet time-out

If Wallet is open for longer than 5 minutes without any user interaction (key presses), a query appears in the display asking if you'd like to keep **Wallet open**, or **Exit**. If you do not respond within 5 seconds, the wallet application closes and your phone returns to the **Start** screen.

Create a wallet code

The first time you access Wallet, you'll be asked to create a personalized wallet code. The Wallet code can be 4 -10 digits in length.

- 1 At the **Start** screen, press **Menu 12-4 (Extras - Wallet)**. After a brief pause, you are prompted to enter a Wallet code.
- 2 Enter the 4 to 10 digit code of your choice and press **OK**. Wallet prompts you to verify the code.

 **Note:** Create a code that is unique, yet easy to remember. This will be your key to using Wallet's features in the future. Also, keep your wallet code in a secret place, separate from your phone.

Change your wallet code

- 1 At the **Start** screen, press **Menu 12-4 (Extras - Wallet)**. After a brief pause, you are prompted to enter your wallet code.
- 2 Enter your wallet code and press **OK**.
- 3 Scroll to **Settings** and press **Select**.
- 4 Scroll to **Change code** and press **Select**.
- 5 Enter the original wallet code and press **OK**.
- 6 Enter the new wallet code and press **OK**.
- 7 Enter the new wallet code again for verification and press **OK**. A message appears in the display confirming your change.

Activate Code Request

To protect yourself against unauthorized use of the waller content/information, you can require the wallet code to be entered each time you use **Wallet**.

- 1 At the Start screen, press **Menu 12-4 (Extras - Wallet)**. After a brief pause, you are prompted to enter your wallet code.
- 2 Enter your wallet code and press **OK**.
- 3 Scroll to **Settings** and press **Select**.
- 4 Scroll to **Code request** and press **Select**. You are prompted to enter the wallet code.
- 5 Enter the wallet code and press **OK**.
- 6 Scroll to **On** (or **Off** to deactivate) and press **Select**. A message appears in the display confirming you have activated code request.

Reset the wallet code

If you forget the wallet code and wish to erase all the information stored in **Wallet**, follow these steps.



Caution: Once you reset the wallet code and clear the contents of Wallet, you cannot restore this information.

- 1 At the **Start** screen, enter ***#3925538# (*#ewallet#)**. A message appears asking if you want to clear your wallet's content and code.
- 2 If you want to permanently delete your wallet code and its contents, press **OK**.
- 3 Enter the security code and press **OK**. Your wallet's code and content are erased.

Create a wallet card

Wallet cards contain data entry fields for shipping, billing, receipt, and card information. Wallet can hold up to 5 credit card sets.

- 1 At the **Start** screen, press **Menu 12-4 (Extras - Wallet)**. After a brief pause, you are prompted to enter the wallet code.
- 2 Enter the wallet code and press **OK**. Scroll to **Cards** and press **Select**.
- 3 Scroll to a card, press **Select**, then choose from the following options.

Card entry fields	
Card info	Enter the card holder, type, number, verification value, expiration day, expiration month, and expiration year
User info	Enter your user name and password
Shipping info	Enter your first, middle, and last name, company name and street address 1, street address 2, city, state, zip code, and country, phone number, and e-mail address

Billing info	Enter your first, middle, last name, company name and street address 1, street address 2, city, state, zip code, country, phone number, e-mail address
Receipt info	Enter the receipt to phone number and receipt to e-mail address
Clear card	Clear the contents of a card
Rename card	Rename the card

Compose a personal note

Wallet can store up to 30 personal notes, such as passcodes or other sensitive data. Your notes are protected by wallet's security feature.



Note: This feature shared memory. For a detailed explanation on shared memory, see "Shared memory" on page 24.

- 1 At the **Start** screen, press **Menu 12-4 (Extras - Wallet)**. After a brief pause, you are prompted to enter your wallet code.
- 2 Enter your wallet code and press **OK**.
- 3 Scroll to **Personal notes** and press **Select**.
- 4 Press **Add new**, compose your note, and press **Options**.
- 5 Scroll to **Save** and press **Select**.
- 6 Enter a title for the note and press **Options**.
- 7 Scroll to **Save** and press **Select**. Your note is saved.

OPTIONS WHILE VIEWING THE NOTES LIST

- 1 Select **Personal notes** from Wallet's main menu. You are presented with headers of the notes you have composed thus far.
- 2 Press **Options** with any note header highlighted to display the options in the following table.
- 3 Use the scroll keys to highlight an option. Use the selection keys to select an option or exit the list.

Options while viewing the notes list	
View	View the contents of the selected note
Add new	Compose and save a new note
Sort	Sort the list of notes by name or date
Erase	Erase the selected note
Erase all	Erase all notes

OPTIONS WHILE VIEWING A NOTE

- 1 While displaying personal notes from the list view, press **Options**, (**View** is highlighted), and press **Select**.
- 2 Press **Options** and the following list of options appear in the display.
- 3 Use the scroll keys to highlight an option. Use the selection keys to select an option or exit.

Options while viewing a note	
Edit	Edit the note
Send as text	Send the note to a compatible phone via SMS
Copy to calend.	Copy the note to any date on your calendar
Use number	Capture any numbers within the note. The number can then be saved to your Phone book, used to place a call, or you can send a message to the number
Erase	Erase the note

• **SYNCHRONIZE**

Your phone's synchronization feature allows you to synchronize the calendar and phone book data in your phone with a remote Internet server or a compatible PC.

-  **Note:** The phone book in your SIM card will not be synchronized.
-  **Note:** This feature must be supported by your wireless service provider. For more information on availability and synchronization service settings, contact your service provider.

Save synchronization settings

You may receive the synchronization settings as a text message or may need to enter the synchronization settings manually. If you do not receive the synchronization setting as a text message, see "Save settings manually" below for more information.

SAVE SETTINGS WHEN RECEIVED AS A TEXT MESSAGE

When you receive the synchronization settings as a text message, **Synchronization settings received** is displayed.

- Press Options and select:
 - **Details** to view the received settings first.
 - **Save** to save the synchronization settings.
 - **Discard** to discard the synchronization settings.

SAVE SETTINGS MANUALLY

You need to activate the set where you want to save the synchronization settings. A set is a collection of settings required to make a connection to a service.

- 1 At the start screen, press Menu 12-5-2-2 (Connectivity > Synchronize > Settings > Active synch. settings).
- 2 Scroll to the set you wish to activate and press **Activate**.
Select **Custom. active Internet sync. settings**. Select each setting

from the following table and key in the required settings.

Settings name	Rename the synchronization setting and press OK.
Data to be synchronized	Select All (phone book and calendar), Phone book, or Calendar and press Done.
Database addresses	Select Phone book database and/or Calendar database, key in the name of the database, and press OK.
User name	Key in the user name and press OK. (Contact your service provider, if necessary, for this information.)
Password	Key in the password and press OK. (Contact your service provider, if necessary, for this information.)
Synchronization server	Key in the name of the server and press OK.

Synchronize from your phone

If you have saved data in the remote Internet server, you can synchronize your phone by starting the synchronization from your phone. Once you have customized and selected the appropriate synchronization settings, you are ready to synchronize data. (See "Save synchronization settings" on page 156 or "Save settings manually" on page 156 for more information.)

- 1 At the start screen, press Menu 14-4-1 (Services > Settings > Active service settings). Select the connection settings you need for synchronization.



Note: The synchronization settings may differ from the service settings required for xHTML browsing. After synchronizing, change your Active service settings back to the previous ones if you want to use other xHTML services later.

- 2 Mark the data to be synchronized. (See "Save settings manually" on page 156 for more information.)
- 3 At the start screen, press **Menu 12-5-1 (Connectivity > Synchronize > Synchronize)**. Synchronization begins.

Depending on the type of connection you are using to synchronize data, connecting or initializing messages may appear.



Note: Synchronizing for the first time or after an interrupted synchronization may take time up to 30 minutes, if the phone book or calendar are full.

STOP SYNCHRONIZATION

- 1 To stop synchronization press **Quit** or **i**. The **Quit synchronization?** message appears.
- 2 Press **OK**.

HANDLING CALLS DURING SYNCHRONIZATION

During synchronization, outgoing calls are not possible. Incoming calls can still be received, and can be handled in one of the following ways:

- To reject the incoming call, press **i** (synchronization continues)
- To answer the incoming call, press **h** (synchronization is interrupted and a **Synchronization suspended** message appears)



Note: Once the incoming call is ended, a **Start synchronization again?** message appears. Selecting **Yes** starts synchronization over again, from the beginning.

Synchronize from your PC

You can synchronize the data in your phone's phone book and calendar to correspond with the data of your PC by starting the synchronization from your PC.

To synchronize the phone book and calendar from your PC, use either an IR connection or a data cable. You also need the Nokia PC Suite software.

Start the synchronization from your PC using Nokia PC suite. After synchronizing, the data in the phone and in the PC are the same.

• USE THE VOICE RECORDER

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



Warning: Your phone must be switched on to use this function.

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

Record a memo

- 1 Press Menu 12-6 (Extras > Voice recorder).
Record appears highlighted.
- 2 To begin recording, scroll to Record, then press Select.
- 3 Clearly state your note. When you are finished, press Stop.
The Title: box appears on the screen with the word Recording.
- 4 Key in a name for the recording and press OK to save it.
Recording saved appears on the screen.

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

- 1 Press Clear to erase the name. Then press Back.
Recording will not be saved. Continue? appears on the screen.
- 2 Press OK.

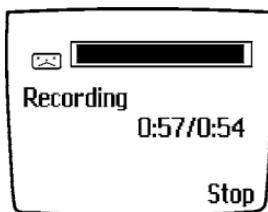
Record a phone conversation



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

- 1 Place the call.
- 2 While in the call, press Options.
- 3 Scroll to Record, then press Select.

While you are recording, the screen shows the amount of time left, and you hear a soft beep every five seconds.



- 4 When you are finished, press **Stop**.
- 5 **Recording saved** appears on the screen, and the conversation is automatically saved under the name "Recording." You can edit the name later.

AUDIO CUES

There are three audio cues to indicate the recording status to both parties in an active phone conversation.

- Start tone: plays when recording begins.
- Recording tone: plays every 5 seconds while the conversation is being recorded.
- Ending tone: signals the end of the recording.

Listen to or edit a memo

- 1 To listen to or edit a recorded memo, press **Menu 12-6-2 (Extras > Voice recorder > Recordings list)**. A list of recordings appears.
- 2 Scroll to the recording you want then press **Options**. A list of options appears:
 - Select **Playback** to listen to the memo.
 - Select **Edit title** to change the name of a memo. Key in the new name and press **OK**.
 - Select **Erase** to delete the memo.

Set an alarm

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



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

- 1 Press **Menu 12-6-2 (Extras > Voice recorder > Recordings list)**.
- 2 Press **Options**. Scroll to **Add alarm** and press **Select**.
- 3 Enter the date and time for the alarm, then press **OK**. **Alarm added** appears on the screen.

Notes about voice memos

- You have about 180 seconds, but the maximum length of the memo depends on available memory.
- When the recording tone starts to beep every 2 seconds, you only have 10 seconds left for your voice memo.

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

• USE VOICE COMMANDS

You can command your phone to perform up to 5 different functions with your voice. Voice commands work similar to voice dialing, so you'll need to associate a voice tag with each command.

 **Note:** Voice commands cannot be used during a call, or while sending or receiving data using the GPRS connection.
[View available functions](#)

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

Press **Menu 12-7 (Extras - Voice commands)** and scroll through the list of functions.

Phone feature	Use a voice tag to select a profile or activate a feature
Profiles	Normal
	Silent
	Meeting
	Outdoor
	Pager

Phone feature	Use a voice tag to select a profile or activate a feature
Voice mailbox	Call voice mailbox
Radio	Radio on
	Radio off
	Next channel
Infrared	Activate infrared
Recorder	Record

Add a voice tag for the command

- 1 Press Menu 12-7 (Extras – Voice commands).
- 2 Scroll to the phone function, then press Select.
- 3 Scroll to one of the available features, and press Options. Add command appears on the screen.
- 4 Press Select.

Press Start, then speak after tone appears on the screen.

- 5 Press Start, and speak the voice tag clearly into the microphone.

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

The phone replays then saves the recorded tag.

Activate a voice command

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

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

OR

Press and hold Names.

OR

Press and hold the volume down key.

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

Work with an existing voice command tag

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

- Playback
- Change
- Erase

PLAY BACK A VOICE COMMAND TAG

- 1 Press Menu 12-7 (Extras - Voice commands)

A list of phone functions appears, with Profiles highlighted.

- 2 Scroll to the phone function containing the voice command you want to hear and press Select.

For example, Profiles.

- 3 Scroll to the profile with the voice command you want to hear. Look for the voice tag icon ().

- 4 Press Options.

Playback appears highlighted.

- 5 Press Select.

Playing voice command appears as the phone plays the command.

CHANGE OR ERASE A VOICE COMMAND TAG

- 1 At the Start screen, press Menu 12-7 (Extras - Voice commands).

- 2** After a brief pause, the list of phone functions appears in the screen.
- 3** Scroll to the feature you wish to modify and press **Select**.
- 4** When the command you wish to modify appears in the screen, press **Options**.
- 5** Scroll to **Change** or **Erase** and press **Select**.
 - If you selected **Change**, press **Start**, then record the new tag.
 - If you selected **Erase**, a confirmation message appears. Press **OK** and the tag for the selected command is erased.

Connectivity (Menu 13)

You can make a serial connection between your phone and a PC using the DKU-5 data cable, which is available for purchase as an enhancement. Once you establish this connection, you can access phone information from your PC, or use your phone as a wireless modem. It may also be possible to make this same serial connection between your phone and an Infrared-equipped laptop or IR-equipped desktop PC using your phone's infrared port.



- ▶ **Note:** Your phone must be switched on to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.
- ▶ **Note:** For more information, see the PC/PDA connectivity guide. This document can be downloaded from the Nokia website at <http://www.nokia.com>.

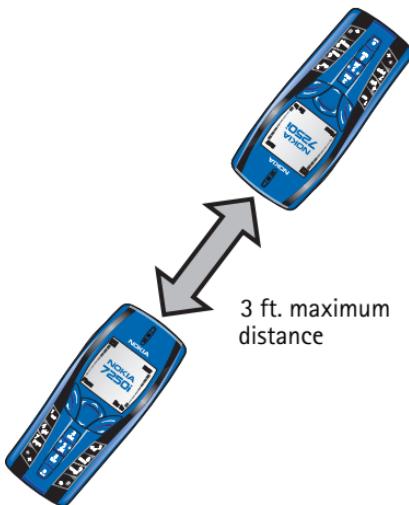
• INFRARED

You can set up the phone to receive data through its infrared (IR) port. To use an IR connection, transmission and reception must be to or from an infrared compatible phone or device. You can send or receive data such as business cards and calendar notes to or from a compatible phone or data device (such as a computer) via the IR port of your phone.

- ▶ **Important:** Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

SEND AND RECEIVE DATA VIA IR

- Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices. The preferable distance between the two devices in an infrared connection is from 3 inches to 3 feet.
- Activate IR in your phone by pressing **Menu 13-1** (Connectivity - Infrared) at the Start screen.
- The user of the other device should activate IR as well.



If data transfer is not started within two minutes after the activation of the IR port, the connection is cancelled and must be restarted.

IR CONNECTION INDICATOR

- When **¶¶¶** is shown continuously, the IR connection is activated and your phone is ready to send or receive data via its IR port.
- When **¶¶¶** blinks, your phone is trying to connect to the other device or a connection has been lost.

• GPRS, HSCSD, CSD

With your phone you can use General Packet Radio Service (GPRS), High Speed Circuit Switched Data (HSCSD), and Circuit Switched Data (CSD).

GPRS is a technology used to send and receive data via short bursts or packets over the wireless network. With GPRS, you can stay connected to the Internet and allow for faster downloads without completing a dial-up connection. Applications using GPRS include the web browser, text

messaging and dial-up connections for making digital data calls. CSD and HSCSD refer to the speed of data transfer over GPRS, and HSCSD. HSCSD is so fast (38.4 Kbps) that it rivals the transfer rate of data over many modems.

- ▶ **Note:** The use of HSCSD service consumes the phone's battery faster than normal voice or data calls. You may need to connect the phone to a charger for the duration of data transfer.

GPRS dial-up connections

When you use your Nokia phone as a wireless modem, you have the option of enabling GPRS connectivity from your PC or laptop computer.

- ▶ **Note:** Before you can use GPRS for dial-up connections you must first subscribe to the GPRS network service. Contact your service provider for details on pricing and availability.

Some service providers may have already set up information for your GPRS dial-up connection.

GPRS icons

The following icons appear on the screen to show you the status of your GPRS connection.

- ▶ **Note:** In order to use GPRS, you must first subscribe to the network service. Contact your service provider for details on availability and pricing.

	Shows up in the upper left corner of the screen. Indicates an active GPRS connection, for example, when you are using the web browser.
	Indicates that circuit switched (CS) or voice calls are not possible when using GPRS.
	Indicates that the GPRS connection has been interrupted by a voice call.

Use data communication applications

For information on using a data communication application, refer to the documentation provided with the application.

If you use IR connection:

- Activate the IR connection in your phone by pressing **Menu 13-1** (Connectivity - Infrared). Also, make sure that the connection is active in your PC.

If you use the DKU-5 data cable:

- 1 Connect the cable to the USB port on the back of your computer and to the connector on your phone.
- 2 Start using the data communications application on the computer.



Note: Making or answering phone calls during a computer connection is not recommended as it might disrupt the operation. For better performance during data calls, place the phone on a stationary surface with the keypad facing downward. Do not move the phone by holding it in your hand during a data call.

• NOKIA PC SUITE

Nokia PC Suite 5 is a collection of powerful tools that you can use to manage your phone's features and data. PC Suite consists of the following components:

Nokia Content Copier allows you to copy data between two Nokia phones, to back up your phone's data to your PC (then restore the data back to your phone), and erase data from your phone.

Nokia Connection Manager allows you to monitor the serial connection between your phone and PC and switch to a different type of connection (cable, IR, or Bluetooth) when copying data from one phone to another.

Nokia PC Composer allows you to create new ringing tones and send to compatible phones.

Nokia Sound Converter allows you to convert General MIDI files for use with MMS messages and as ringing tones for your phone.

Nokia PC Sync allows you to synchronize contacts, calendar, and to-do list items between your phone and PIM applications such as Microsoft Outlook and Lotus Organizer.

Nokia PC Graphics allows you to create new caller group logos and picture messages or allows you to edit pictures (or picture messages) already in your phone.

Nokia Image Converter allows you to convert and optimize graphics for use in MMS messages or for creating desktop wallpaper for your phone.

Nokia Phone Editor allows you to edit your phone book and settings from your PC.

Nokia Application Installer allows you to install JavaTM applications from your PC to your phone.

Nokia Phone Browser allows you to browse the contents of your phone using Windows Explorer or My Computer.

Please refer to the *Nokia PC Suite Connectivity Guide* for installation and setup instructions.

• **DOWNLOAD PC SUITE SOFTWARE**

PC Suite software and documentation for the Nokia 7250i can be downloaded from the U.S. Mobile Phone products section of www.nokia.com.

Services (Menu 14)

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



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

• NOTES ON WIRELESS INTERNET ACCESS

This section gives a brief overview of wireless Internet technology.

Technology background

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

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

Internet content on your personal computer is called a "web page." Internet content on your mobile phone is called a "page," or "card."

 **Note:** WAP pages are designed using Wireless Markup Language (WML). Since many web pages are designed using Hyper Text Mark-up Language (HTML), not all web pages may be viewed from your phone.

The wireless provider's role

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

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

• SET UP FOR BROWSING

It should not be necessary to manually configure the browser on your phone. Normally this is done by your wireless provider once you have subscribed to the feature. Contact your wireless provider if you have problems using the browser.

• SIGN ON TO THE WIRELESS INTERNET

Use the **Services** menu to connect to the Internet.



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

Press **Menu 14-1** (Services - Home). After a brief pause, you are phone attempts to connect to your wireless provider's home page.

OR

At the Start screen, press and hold the **0** key.

Your phone connects to the Internet and to your service provider's home page.

If you see the message **Check service settings**, the phone may not be set up for browsing. Contact your wireless provider to make sure that your phone is configured properly.

• USE BROWSER OPTIONS

The **Services** menu gives you the options shown in the following table. Some wireless providers may have customized the options on the Services menu. Contact your wireless provider for more information if any of the options shown in the following table are not available.

Choice	What it does
Home	Starts the browser and takes you to your service provider's home page.
Bookmarks	Shows a list of all saved bookmarks. Bookmarks help you find a WAP site quickly.
Service inbox	Allows you to receive notifications from your service provider about new e-mail messages, changes in stock prices, and so on
Settings	Provides options for changing connection settings, appearance settings, and authority certificate.
Go to address	Accepts an address you enter.
Clear the cache	Empties the browser's temporary memory. It is advisable to empty the cache at the end of each session.

• NAVIGATE THE WIRELESS INTERNET

Since your phone's screen is much smaller than a computer screen, Internet content is displayed differently than you may be accustomed to seeing. This section contains guidelines for using phone keys to navigate a WAP site. Examples of how to read a WAP site follow the guidelines.

General guidelines for using the phone keys

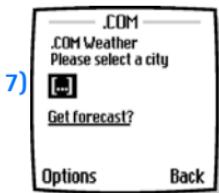
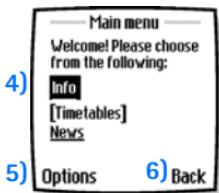
- To browse the WAP site, use the Scroll up key or the Scroll down key.
- To select a highlighted item, press the Talk key.
- To enter letters and numbers, press the keys the 0 key through the 9

key.

- To enter special characters, press the the **Star** key key.

Examples of wireless Internet sites

The following illustrations show most of the elements you may find on a wireless Internet site. These are examples only.



- 1) **Header line:** shows the current Internet site.
- 2) **Active link:** appears as a highlighted word.
- 3) **Inactive link:** appears as an underlined word.

Scroll through the list of links using the Scroll up key and the Scroll down key.

- 4) **Selection list:** Brackets [] appear when you have the option to enter information.
- 5) **Options:** Press **Options** to go to the site's menu and/or browser page.
- 6) **Back:** Press **Back** to return to the previous page.

- 7) **Data entry field:** Brackets [] that enclose dots indicate when you need to enter information. In this example, you can enter your zip code to receive the local weather forecast.

• USE BOOKMARKS

You can save addresses for your favorite sites as bookmarks. A bookmark helps you find a site again, just as a slip of paper helps you find a page in a book. You can add up to 30 bookmarks to your browser.

Set a bookmark while browsing

- 1 Press **Menu 14-2** (Services - Bookmarks). After a brief pause, a list of bookmarks (if any) appear in the display.
- 2 Press **Options**, scroll to **New bookmark** (if necessary), and press **Select**.
- 3 Enter an address for the bookmark and press **OK**.
- 4 Enter a title for the bookmark and press **OK**. A message appears in the display confirming your bookmark is saved.

Disconnect from the Internet

To close your connection, simply press the **End** key twice.

Security issues

BE SURE TO CLEAR THE CACHE MEMORY

The information or services you access with the WAP browser are temporarily saved in the cache memory of the phone. A cache is a buffer memory, which is used to store data temporarily.

If you tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use.

CLEAR THE CACHE

- 1 Press **Menu 14** (Services). After a brief pause, a list of options appear in the display.
- 2 Scroll to **Clear the cache** and press **Select**.

CLEAR THE CACHE WHILE BROWSING

- Press **Options**, scroll to **Clear the cache** and press **Select**.

About authority certificates

To use some WAP services, such as banking services, you need an authority certificate. Using the certificate can help you to improve the security of connections between your phone and a WAP server.

You can download the certificate from a WAP page if the WAP service supports the use of authority certificates. After the download, you can view the certificate, then save or delete it. If you save the certificate, it is added to the list of certificates in the phone.

Your phone alerts you if the identity of the WAP server or WAP gateway cannot be verified or is not authentic.

VIEW THE LIST OF AUTHORITY CERTIFICATES

- 1 Press **Menu 14-4** (Services - Settings). After a brief pause, a list of settings appears in the display.
- 2 Scroll to **Authority certificates** and press **Select**.

Set up an automatic connection

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



Important: GPRS may not be available in all wireless networks. The establishment and continuation of a GPRS and Internet connection depends on network availability, service provider support, and signal strength.

You can choose one of the following options for your GPRS connection.

- 1 At the Start screen, press **Menu 13-2-1** (Connectivity - GPRS - GPRS connection). After a brief pause, the following options appear in the display.
- 2 Scroll to an option and press **Select** to activate the option or to enter its submenu.

- **Always online:** the phone is automatically registered to a GPRS network when you turn your phone on. When you use the WAP browser, the connection between your phone and the network is created and data

transfer is possible. When you exit the WAP browser, the GPRS connection ends but the registration to the GPRS network remains.

- **When needed:** the GPRS connection is established when you use the WAP browser and is closed when you exit the WAP browser.

Receive a call while online

If you are using the WAP browser over GPRS, you can still receive a voice call. Your data call is put on hold and you can choose to answer the call.

- To answer the incoming call, press the Talk key.
- To reject the incoming call, press the End key.



Note: After you end your voice call, the GPRS connection automatically resumes.

Make a call while online

When you are browsing a WAP card and want to make a call, you can select **Use number**. Your phone then searches the information on the WAP card for a string of numbers. You can then choose from the number or numbers displayed to place the call.

An alternate way is to press the End key to disconnect from the Internet, then place your call by searching the phone book for a name and number or by keying in the phone number.

Make an emergency call while online

If you are using GPRS to connect to the Internet, you can end your data connection and then make an emergency call.

- 1 To close your Internet connection, simply press the End key.
- 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 the Talk key.

8 Enhancements

• ABOUT ENHANCEMENTS

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from ACP-7, ACP-8, ACP-12, LCH-9, LCH-12, DDC-1, and DT-1.



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

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

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

IMPORTANT BATTERY INFORMATION



Important: Your phone is powered by a rechargeable battery.



Warning: 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.

PROLONG THE BATTERY

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

- 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.
- After the first charge, you can make and receive calls during the

charging cycle, but a call lengthens the charging time. When a call ends, the normal charging cycle resumes.

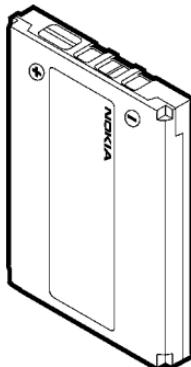
- The bars on the screen stop scrolling and remain constant when the phone is fully charged. If you leave the phone connected to the charger, the battery receives an additional charge. If you switch the phone on when charging is complete, the message **Battery full** momentarily appears in the display.

 **Note:** The battery will accept a "trickle charge" for an additional two hours.

• POWER

Standard 780 mAh Li-ion Battery (BLD-3)

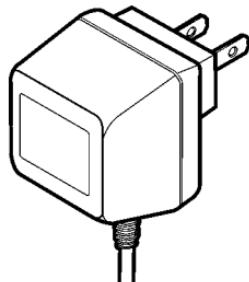
- Provides up to 5 hours of talk time.
- Provides up to 3 hours talk time with the speaker.
- Provides up to 10 days of standby time.
- Radio and headset up to 20 hours.
- Radio and speaker up to 8 hours.



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

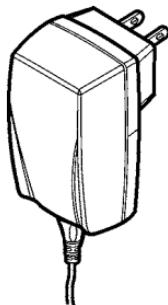
Standard Travel Charger (ACP-7)

This lightweight AC charger can be used with all battery options. To use the charger, plug it into a standard 120V AC wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery. The charger can also be used together with the optional Desktop Stand (DCV-14).



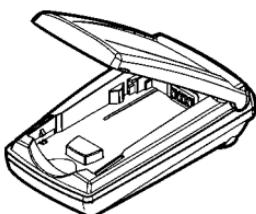
Multivoltage Performance Travel Charger (ACP-8)

This lightweight AC charger can be used with all battery options. To use the charger, plug it into a standard 120V AC wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery. The charger can also be used together with the optional Desktop Stand (DCV-14).



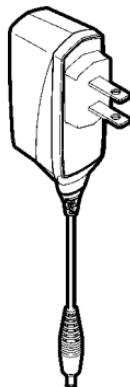
Battery Charging Stand (DDC-1)

Charge a spare battery with this convenient stand.



Rapid Travel Charger (ACP-12)

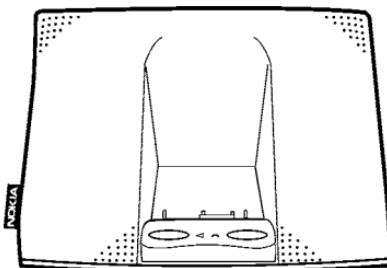
This lightweight AC charger can be used with all battery options. To use the charger, plug it into a standard 120V AC wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery. The charger can also be used together with the optional Desktop Stand (DCV-14).



• AUDIO

Music stand (DT-1)

Equipped with full-range stereo speakers, the Nokia Music Stand is designed for listening to your phone's FM radio in excellent quality stereo sound. It also includes input for external audio devices. Just plug in a compatible CD player or MP3 player to the external audio input at the back of the stand to enjoy music on the stereo speakers.



Keeping the business user in mind, the Nokia Music Stand has an auto-mute feature for external audio sources. And the integrated microphone lets you make conference calls and talk handsfree while your phone is charging in this stylish, streamlined music stand.

Headset (HS-5)

An easy and convenient handsfree solution with a remote control.



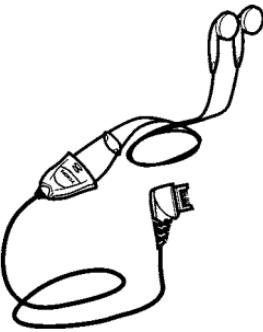
Boom Headset (HDB-4)

New over-the-ear design concept boom headset is small, lightweight, and provides excellent audio quality.



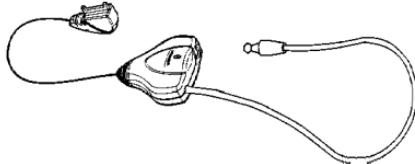
Stereo Headset (HDS-3)

Distinctive Nokia design enabling the use of stereo FM radio available on some Nokia phones. Provides excellent audio quality and handsfree functionality with an integral send/end button.



Loopset (LPS-4)

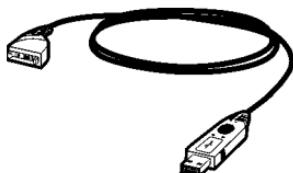
With the Nokia Loopset, people who use a T-coil equipped hearing aid have the freedom to talk on a digital mobile phone. The loopset goes around your neck - so it can be worn comfortably and discreetly.



- **DATA**

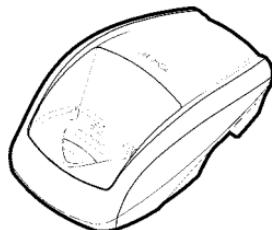
Data Cable (DKU-5)

For e-mail, faxes, Internet and data transmissions. Easy and convenient connection with no modem or PC card needed.



Desk stand with sync (DCV-14)

The desk stand provides easy charging and convenient data synchronization with a compatible computer using the Connectivity Adapter Cable (DKU-5) sold separately.



• CAR

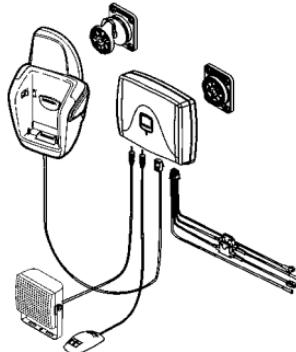
Complete Car Kit (CARK-143)

The full car kit is a complete handsfree solution for your vehicle.

- Advanced car hands free unit (HFU-4)
- Mounting plate (MKU-1)
- Hands free microphone (HFM-8)
- Hands free speaker (HFS-12)
- Power cable (PCU-4)
- System cable (SCU-4)
- Mobile holder (MBC-15S) or Swivel mount (HHS-15)



Note: MBC-15S and HHS-15 are sold separately.



Mobile Lighter Charger (LCH-12)

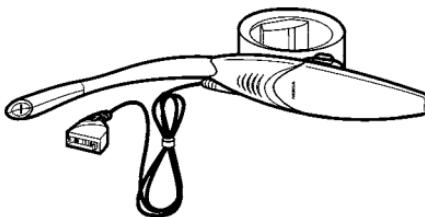
This multi-voltage charger plugs into the cigarette lighter and is an easy and convenient way to charge the compatible phone battery in a vehicle. This lightweight AC charger can be used with all battery options.



To use the charger, plug it into a standard 120V AC outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery.

Headrest handsfree (BHF-1)

This handsfree unit with an integrated microphone conforms to a car headrest and provides a safe driving environment.



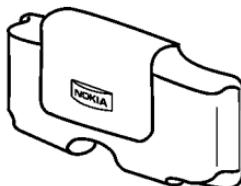
• COVERS AND CARRYING

Xpress-on™ Color Covers

Express yourself with Xpress-on™ color covers that match your own unique style. Nokia 7250i color covers are available in Olive (SKR-334), Green (SKR-335), and Plum (SKR-346).

Leather carry case (CSL-23)

- Luxurious, hard leather case with flap
- Integrated belt clip



9 Reference information

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

• BATTERIES AND CHARGERS

This phone is intended for use when supplied with power from the ACP-7, ACP-8, ACP-12, LCH-9, LCH-12, DDC-1, and DT-1 chargers. Other usage could invalidate any approval given to this apparatus and might be dangerous.



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

- When the battery is fully charged, the indicator will tell you that the battery is fully charged.
- When you are not using a charger, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging could shorten its lifespan. 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 off.

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

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

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

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

The following list provides guidelines that you can follow:

- When the operating time (talk time and standby time) is noticeably shorter than normal, buy a new battery.
- Use the battery only for its intended purpose.
- Never use any charger or battery that is damaged and/or worn out.
- Batteries must be recycled or disposed of properly. Do not dispose of batteries by putting them in fire!
- When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

• **IMPORTANT SAFETY INFORMATION**

Traffic safety

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

Remember road safety always comes first!

Operating environment

Remember to follow any special regulations and always switch off your phone wherever forbidden, or when it may cause interference or danger.

When connecting the phone or enhancement to another device, read its user's guide for safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised to operate this equipment only in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Pacemakers

Pacemaker manufacturers recommend a distance of 20 cm (6 inches) be maintained between a hand-held wireless phone and a pacemaker to avoid interference with the pacemaker. These recommendations are consistent with independent research and recommendations of Wireless Technology Research.

PERSONS WITH A PACEMAKER:

- Should always keep the phone more than 20 cm (6 inches) from their pacemaker when the phone is switched on.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- Should switch off the phone immediately if there is any reason to suspect that interference is taking place.

Hearing aids

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

Other medical devices

Operation of any radio transmitting equipment, including cellular phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if it is adequately shielded from external RF energy, or if you have any questions.

Switch off your phone in health care facilities when regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to RF energy.

Electronic devices

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

Posted facilities

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

Potentially explosive atmospheres

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

Users are advised to switch off the phone when at a refuelling point (service station). Users are reminded of the need to observe restrictions 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. They include below deck on boats, chemical transfer/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 be advised to turn off your vehicle engine.

Vehicles

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

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

Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Ensure all wireless phone equipment in your vehicle is mounted and operating properly.

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

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

Aircraft

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

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, legal action, or both.

Emergency calls



Important: This phone, like any wireless phone, operates using radio signals and cannot be guaranteed to connect in all conditions. Therefore, you should never rely solely upon any wireless phone for essential communications (such as medical emergencies).

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

MAKING AN EMERGENCY CALL:

- 1 If the phone is not on, switch it on.



Important: Some networks may require that a valid SIM card be properly inserted in the phone.

- 2 Press and hold the **End** key to return to the Start screen.
- 3 Enter the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
- 4 Press the **Talk** key.

If certain features are in use (Keyguard, fixed dialing, and so on), you may first need to turn those features off before you can make an emergency call. Consult this guide and your local wireless provider for more information.

When making an emergency call, remember to provide all information as accurately and clearly as possible. Remember that your wireless phone may be the only means of communication at the scene of an accident - do not cut off 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 0.69 W/kg, and when worn on the body, as described in this user guide, is 0.70 W/kg. (Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements).

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID PYA NHL-4J.

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

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

10 Care and maintenance

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

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

11 Frequently Asked Questions

This section lists answers to the most frequently asked questions. Some of the answers contain menu shortcuts. For a list of shortcuts, see "Menu shortcuts" on page 32. The following table lists some common problems and their solutions.

Problem	Possible cause	Possible solution
My phone is not charging	The charger and phone are not properly connected	Securely connect the charger to the phone
	The charger is not properly plugged into the wall	Ensure the charger is plugged in correctly
My phone is not making/receiving calls	The battery is not charged	Charge the battery
	The signal strength is poor	If you are indoors, move toward a window
I cannot listen to my voice messages	You do not have voicemail service	Call your wireless provider
	You have not setup your voicemail service with your wireless provider	Call your wireless provider
	You have not saved your voicemail number to your phone	See "Save your voice mailbox number" on page 78
	You have forgotten your password or are entering it incorrectly	Call your wireless provider
	The voicemail number you have saved to your phone is incorrect	Call your wireless provider

Problem	Possible cause	Possible solution
When I insert my SIM card into another phone, it is rejected	Fixed dialing is activated on your SIM card and the receiving phone does not support fixed dialing	Deactivate fixed dialing on the SIM

Q. What is my security code?

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

Q. How do I lock and unlock the keypad?

A. Lock the keypad by pressing Menu and the Star key. To unlock the keypad, press Unlock and the Star key.

Q. How do I make the phone ring louder?

A. Press **Menu 4 (Profiles)**, and scroll through the list of profiles until you find the one for which you want to set the ringing volume. Then press **Select**.

- Scroll to **Customize** and press **Select**.
- Scroll to **Ringing volume** and press **Select**.
- Scroll to the volume level of your preference and press **Select**.

Q. How do I change the ringing tone?

A. Press **Menu 4 (Profiles)** and scroll through the list of profiles until you find the one for which you want to set the ringing tone. Then press **Select**.

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

use, press Select.

Q. How do I store my voice mailbox number?

A. Press Menu 01-4-2 (Messages - Voice messages - Voice mailbox number). Enter your voice mailbox phone number, and press OK.

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

A. When your phone alerts you to new voice messages, press Listen and follow the instructions on the phone. If you'd rather listen to your messages later, press Exit.

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

- Press and hold the 1 key.
- Press Menu 01-4-1 (Messages > Voice messages > Listen to voice messages). Follow the recorded voice prompts to listen to your messages.

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

A. Press the Talk key twice.

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

A. Press Names and scroll to 1-touch dialing.

Press Select.

Scroll to the first (empty) slot and press Assign.

Enter or retrieve the name/number you want to assign to the key and press OK. Repeat these steps as many times as necessary.

Q. How do I check the Phone book memory status?

A. Press Names, scroll to Settings, and press Select. Scroll to Memory status and press Select. Scroll to Phone or SIM card and press Select. The memory status for your selection appears in the display.

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

A. The model number and IMEI numbers are located on a label under the phone's battery. Turn your phone off, remove the back cover and then remove the battery from the phone.

Q. How do I clear my call timers?



Important:Clearing call timers cannot be undone.

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

12 Glossary

Business card	A business card is the same as an entry in the phone book. It may contain a name, phone number, and text entry. It can also be sent to other devices.
Call forwarding	A network services feature you use to forward incoming calls to another number.
Call lists	A list used to track numbers for incoming, outgoing, or missed calls.
Call log	A log that registers information about calls you make and receive.
Call timers	Timers used to track the amount of time you spend on calls.
Call waiting	A network services feature that enables your phone to beep while you are in the middle of a call. The beep lets you know that someone else is calling you.
GPRS	General Packet Radio Service.
IMEI	International Mobile Equipment Identifier. The phone's ID. The IMEI is located under the battery.
In-call options	Features available for use while you are in a call.
IR	Infrared.
Keyguard	Locks the keypad to prevent accidental key presses.
Keypad tones	The tone you hear when you press a key.
Menu	A list of choices you can make to change settings on your phone or use various phone features.

MIDP Java	Java for mobile phones. This feature allows phones to run small Java programs called MIDlets.
MMS	Multimedia Messaging Service.
PIN	Personal Identification Number.
Predictive text	A method of entering information in your phone that uses a dictionary to predict, or guess, what you are writing.
Profile	A group of settings you can use to customize the way your phone works.
PUK	Personal Unblocking Key.
Ringing tone	The sound your phone makes when you receive a call. Ringing tones can be ringing sounds or short tunes.
Scroll bar	A bar that appears on the right side of the screen when you scroll through the main menus.
SIM	Subscriber Identity Module.
SMS	Short Message Service.
SP-MIDI	Scalable Polyphony - Musical Instrument Digital Interface.
Start screen	Your phone's idle screen.
Voice mail	A network services feature that enables people who call and miss you to leave a message on your phone.
WAP	Wireless Application Protocol.
Warning tones	Sounds your phone makes during error conditions, during confirmations, when the battery is low, and when you need to recharge the battery.

13 Technical information

Feature	Specification
Dimensions	Width 1.73 inches (44 mm) Height 4.09 inches (104 mm) Depth 0.75 inches (19 mm)
Weight	3.24 oz. (92 grams) with BLD-3 780 mAh Li-Ion Battery
Wireless networks	GSM 900, 1800, and 1900 networks
Size (volume)	4.45 cubic inches (73 cubic centimeters)
Frequency Range (Tx)	GSM 900: 880 – 915 Mhz GSM 1800: 1710 – 1785 Mhz GSM 1900: 1850 – 1910 Mhz
Frequency Range (Rx)	GSM 900: 925 – 960 Mhz GSM 1800: 1805 – 1865 Mhz GSM 1900: 1930 – 1990 Mhz
Tx Output Power	2W (max)
Battery Voltage	3.6 v DC
Number of channels	299
Memory locations	Up to 500 in phone memory
Shared memory	Up to 725 Kb
IR link	Up to 1.152 Mbit/s

14 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 enhancement data code has been removed, defaced or altered.
 - e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:

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

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., Suite. 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 (1-800-246-6452)
- 17 The limited warranty period for Nokia supplied attachments and enhancements is specifically defined within their own warranty cards and packaging.

Appendix A

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

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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>

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Appendix B Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones.

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

Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

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

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

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

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

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

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

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

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

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

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/>

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