



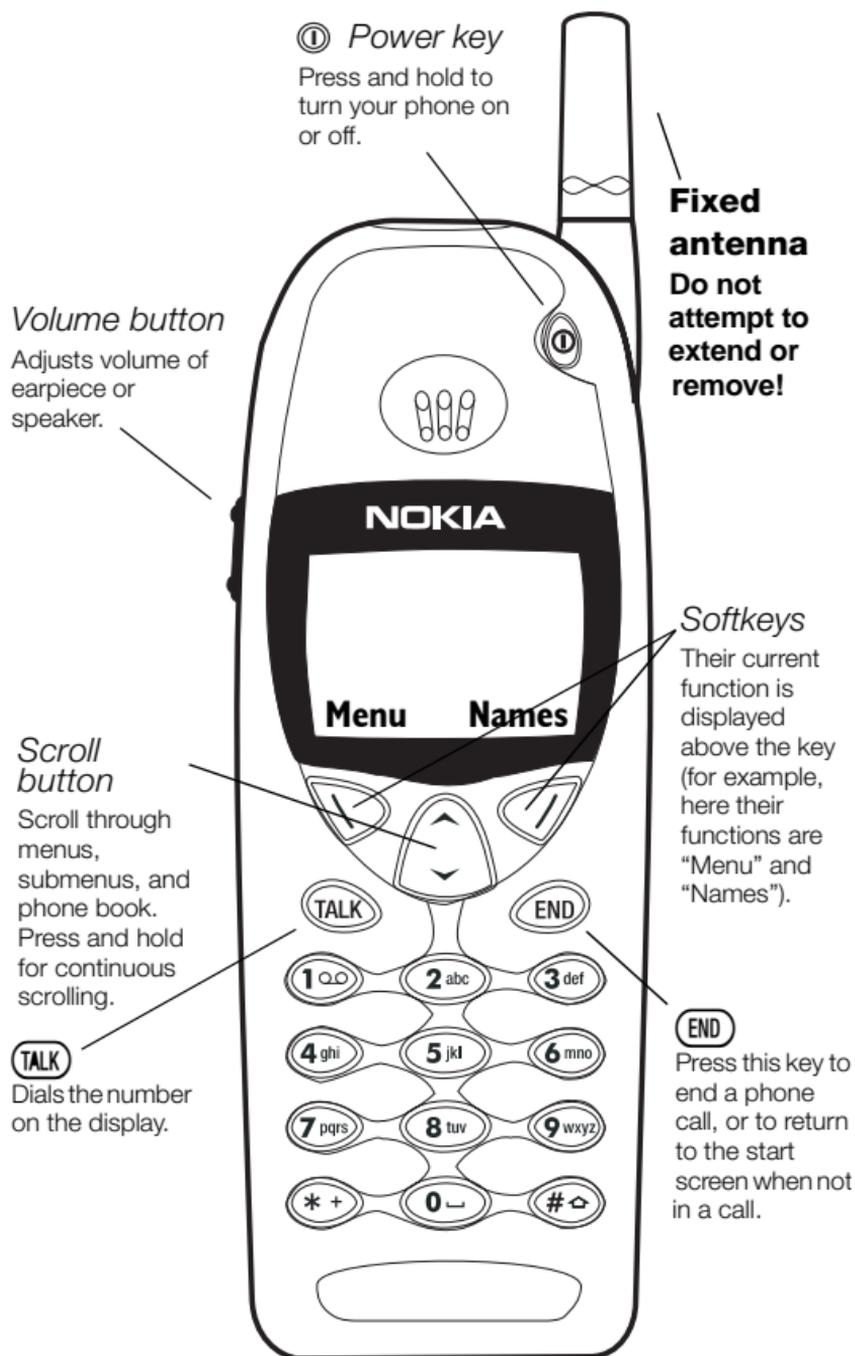
**NOKIA**

CONNECTING PEOPLE

**OWNER'S  
MANUAL**

**NOKIA  
6190**

# Keys



## Indicators and Icons

-  Line 1 is selected for outgoing calls (see page 53).
-  Line 2 is selected for outgoing calls (see page 53).
-  You have an active call.
-  The phone is waiting for you to enter a response.
-  Ringing option is set to **Silent** and keypad tones, warning tones, and message alert tone are turned off.
-  Keypad lock has been activated. Your phone will not accept any keypresses. To deactivate, press **Unlock**, then .
-  Your phone has been set to forward all incoming voice calls to another number.
-  You have forwarded all voice calls that are received on line 1 (see page 45).
-  You have forwarded all voice calls that are received on line 2 (see page 45).
-  You have forwarded all voice calls that are received on lines 1 and 2 (see page 45).
-  You have one or more voice messages waiting.
-  You have one or more text messages waiting.
-  Analog mode is active. See *“Optional Analog Module”* on page 84.
-  Your phone is roaming outside of its home system.
-  Any characters you enter will be upper-case letters. Press the # key to switch letter case.
-  Any characters you enter will be lower-case letters. Press the # key to switch letter case.
-  Any characters you enter will be numbers.
-  You are in “special character” mode; select a special character and press **Insert**. (When entering letters, switch to this mode by pressing the  key.)
-  The alarm clock is set.

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# 1. For Your Safety



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

*For more detailed safety information, see "Important Safety Information" on page 97.*



## **Road Safety Comes First**

Don't use a hand-held phone while driving; park the vehicle first.



## **Switch Off In Hospitals**

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



## **Switch Off On Aircraft**

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



## **Switch Off When Refueling**

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



## **Switch Off Near Blasting**

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



## **Interference**

All wireless phones may get interference which could affect performance.



## **Use Sensibly**

Use only in the normal position (to ear). Don't touch the antenna unnecessarily.



## **Qualified Service**

Only qualified service personnel must install or repair equipment.



## **Accessories and Batteries**

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

## FCC/Industry Canada Notice

Your phone may cause TV or radio interference (e.g. when using a telephone in close proximity to receiving equipment). The FCC/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.

## Using this Guide

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

### Network services

A number of features included in this guide are called network services. They are special services provided by wireless service providers. Before you can take advantage of any of these network services, you must subscribe to the service(s) from your home service provider and obtain instructions for their use.

### Updates

The latest version of this Owner's Manual may be found on Nokia's World Wide Web site at **[www.NokiaUSA.com](http://www.NokiaUSA.com)**.

### Compliance with EU Directive 89/336/EEC



This Nokia-manufactured product complies with the European Union EMC Directive 89/336/EEC.

This product does not operate in European GSM networks but can be purchased and then used with an appropriate SIM card in GSM 1900 networks in North America or Latin America.

## 2. Getting Connected

So you've just bought your new phone, taken it out of the box, and you're wondering what to do next. To get started, just follow a few easy steps.

- 1)** Install the SIM card
- 2)** Attach and charge the battery
- 3)** If you purchased an optional analog module, attach it to the phone

See "Optional Analog Module" on page 84.

*Note: The analog module is a separate accessory that may be purchased from your service provider. It allows you to make and receive calls in analog networks.*

### Installing the SIM card

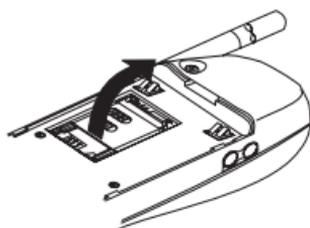
Before you can use your phone, you need to put a valid miniature SIM card in the phone. The card comes from your network operator or service provider.

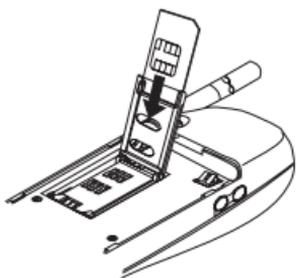
*Before installing the SIM card, switch off the phone and wait for a few seconds before removing the battery.*

*The SIM card and its contacts can be easily damaged by scratches or bending, so be careful when you handle, insert or remove the card.*

*Note: Keep all miniature SIM cards out of small children's reach.*

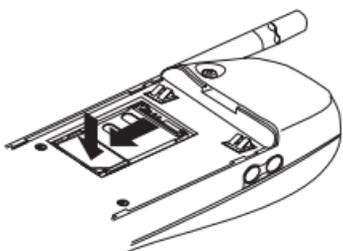
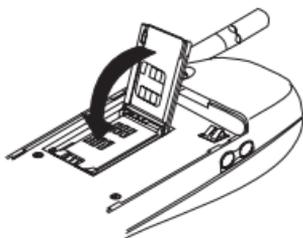
- 1)** If the battery is already attached, remove it. See "Removing the battery" on page 9.
- 2)** Open the SIM card holder: slide the latch toward the top of the phone, then lift it up





**3)** Place the SIM card in its slot. Make sure that the bevelled corner is top right and the gold contacts of the card face into the phone.

**4)** Close the holder



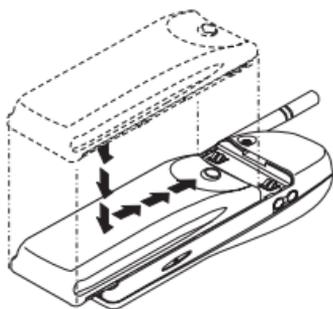
**5)** Slide the SIM card holder toward the bottom of the phone until it locks into place

**6)** Attach the battery (see below)

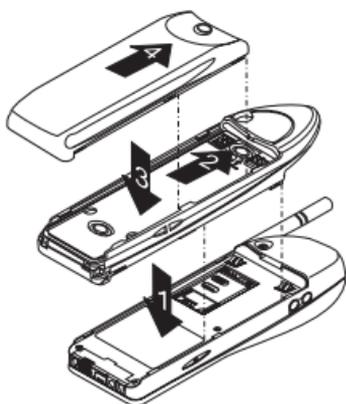
## Battery information

### Attaching the battery

To attach the battery, place it on the back of the phone as shown and slide it toward the top of the phone until it clicks into place.



## Attaching the battery when using optional analog module



- 1)** Place the analog module on the back of the phone
- 2)** Slide the module toward the top of the phone until it clicks into place
- 3)** Place the battery on top of the analog module
- 4)** Slide the battery toward the top of the phone until it clicks into place

## Charging your new battery

Your phone is powered by a rechargeable Li-Ion or NiMH battery. Note that a new NiMH battery's full performance is achieved only after two or three complete charge and discharge cycles.

*Note: Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer.*

*Also, see "Important Battery Information" on page 100 for important battery usage information and "Talk and Standby Times" on page 92 for approximate battery operation times.*

With your phone on or off, simply connect the lead from the charger to the bottom of your phone or to a charging stand. Then connect the charger to a standard 120V AC outlet.

*Note: If you have purchased an optional analog module, be sure to remove it and replace the battery before placing the phone in a charging stand. Although the phone will fit in the stand with the analog module attached, charging will not take place.*

When the battery is charging, the battery-strength indicator on the right side of the display will scroll. When you charge the battery for the first time, the battery-strength indicator will not scroll the entire time; this is normal.

If your phone displays **Not charging**, charging is suspended. Check that the battery is connected to an approved charging device. If the battery is very hot or cold, wait for a while; charging will automatically resume after the battery is restored to its normal operating state. If charging still fails, contact your dealer.

### **When is a good time to charge?**

Actually, you can charge anytime. If you have a NiMH battery, you should allow it to discharge once in a while (see “Discharging NiMH batteries” on page 9).

Whenever your phone beeps once and displays **Battery low**, you only have a couple of minutes of talk time remaining. The repetition rate of these battery-low warnings depend on the remaining battery capacity and the battery condition. These warnings are more frequent when you’re in a call.

*Note: The phone will not give you the warning tone under certain conditions. See “Warning and game tones” on page 82.*

Once all the power has drained from your battery, you’ll hear three beeps with the message **Recharge battery** on your display. At this point, your phone will switch itself off and you’ll need to recharge your battery.

### **When is charging complete?**

When the charge indicators stop scrolling, your phone is considered fully charged. However, a slight increase in charge may occur if your phone is left connected to the charger. This is called “trickle charge.”



Charging times depend on the type of battery and charger used. *For approximate charging and operating times, see “Batteries” on page 91.*

If the battery is too hot or cold, charging may be interrupted until the battery reaches its normal operating temperature.

## Can I make calls while charging?

Yes, but depending on the charger used, your battery may not charge during a call.

## Discharging NiMH batteries

An NiMH battery lasts longer and performs better if you fully discharge it from time to time. To discharge the battery, leave your phone switched on until the battery is drained. The phone will display several messages that the battery is low and that you need to recharge it; just ignore them. After the phone turns itself off, connect the charger and fully recharge the battery.

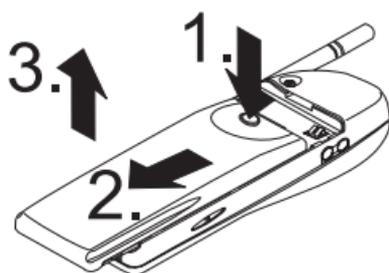
*Note: Do not attempt to discharge the battery by any other means.*

## When do I need to buy a new battery?

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

## Removing the battery

*Note: Switch off the phone before removing the battery!*



**1)** Press and hold the button at the top of the battery

**2)** Slide the battery toward the bottom of the phone

**3)** Lift the battery off the phone

## 3. The Very Basics

Your phone is designed with many powerful features that you can learn to use as needed. This chapter covers the basic information you need to use your phone. Everything else is covered in “Features A-Z” starting on page 18.

### Switching on the phone

Press and hold the  key for one second to switch on the phone.

*If the phone asks for a PIN code, see “PIN and PIN2 codes” on page 64. If the phone asks for a Security code, see “Security code” on page 72.*

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

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

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

### Checking signal strength

Your phone operates on radio waves, and the quality of radio reception depends entirely on the strength of the radio signal in your area.

This radio coverage is maintained by a wireless network and the quality of calls on a wireless phone depends on the strength of the wireless radio signal.

#### Get a strong signal

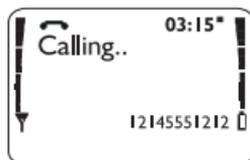
When you are at the start screen (see page 14) or in a call, the strength of the radio signal is indicated by the signal indicators on the left side of your phone’s display. These indicators scroll as the strength of the signal increases and decreases.



Improving your phone's reception may be easy. Try moving your phone slightly, or move towards a window if you're calling from inside a building.

## Making a call

Enter the area code and phone number and press **TALK**



## Making an international call

Enter the + character (press **\*\*+** twice), country code, area code and phone number.

## Editing a number on display

Press **▲** to move the cursor to the left and **▼** to move it to the right. Press **Clear** to delete the character to the left of the cursor.

## Dialing a phone number stored in the phone book

View entries by pressing **▼** or **▲** from the start screen, then press **TALK**

## Emergency calls

See "Emergency calls" on page 40.

**IMPORTANT!** *The phone can make and receive calls only when:*

- It is switched on,
- It has a valid SIM card installed, and
- It is located in the service area of a GSM 1900 or analog network (if using the optional analog module) where your SIM card can be used and the radio signal strength is adequate.

## Ending a call

Press **END**

## Answering a call

The phone rings according to the settings in the currently selected profile (see page 65).

To answer, press any key except **END** or **ⓘ**

*Note: If Keyguard is on (see page 50), only **TALK** answers calls.*

To reject a call, press **END**.

*Note: If you are using the optional analog module, pressing **END** stops the ringing but does not answer or reject the call.*

## Switching off the phone

Press and hold the **ⓘ** key for one second **OR**

Briefly press the **ⓘ** key (**Switch off!** will appear, highlighted) then press **OK**. (This does not work if the phone is connected to a headset or handsfree car kit.)

## Keyguard

You can “lock” your phone’s keypad with this convenient feature. Keyguard makes sure that keys don’t get pressed by accident when the phone is in your pocket or purse.



*Note: Keyguard is not a security feature and will not prevent unauthorized use of your phone.*

### To lock the keys

Press and hold **END** until **Keys locked** appears, **OR**

Press **Menu** **\*+** **OR**

Press **Menu** 9

### To unlock the keys

Press **Unlock** **\*+** **OR**

Press and hold **END** until **Unlock keys?** appears, then press **OK**

*See page 50 for more information about Keyguard.*

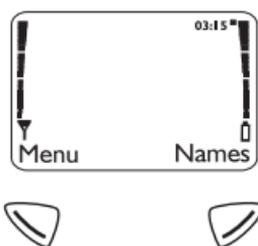
## 4. Working The Menu

Your phone contains several menus and submenus, giving you access to certain options and allowing you to customize your phone to suit your individual preferences.

### Navigating tools

#### Softkeys

Your phone has two softkeys that appear below the display. Their current function is indicated by the words appearing above them. Simply press the corresponding key under the choice you wish to select.



This illustration shows the phone at the start screen (see “What is the ‘start screen’?” on page 14). The start screen always displays **Menu** on the left and **Names** on the right. **Menu** allows you to access your phone’s menus and submenus. **Names** allows you to access your phone book (see “Phone book” on page 61).

#### Scroll button

Your phone has a scroll button located just below the display screen. The scroll button has two arrows on it that look like ▲ and ▼. You will press these arrows to navigate through your phone’s menus and submenus, as well as through your phone book (See “Phone book” on page 61).

#### Scroll bar

When you access your phone’s menu and submenus, you will notice a scroll bar at the far right of the screen. This bar indicates where you are in the menu structure; each “tab” on the bar represents a different menu item.



For example, press **Menu** once. The scroll bar appears with the first (top) tab displayed. A different tab appears each time you press the ▼ or ▲ key to move up and down through the menu structure. The scroll bar works the same way with submenus.

### **Menu & submenu numbering**

When you scroll to a menu or submenu, the menu number and/or submenu number appears on the display above the scroll bar. If you become familiar with these numbers, you can use them as shortcuts for accessing different menus.

For example, when you enter menu 2 (**Call log**) the number **2** appears in the top right-hand corner of the display. If you enter menu 4 (**Settings**), submenu 2 (**Security settings**), your phone will display **4-2** in the top right-hand corner.

See "Using shortcuts" on page 15.

## **What is the 'start screen'?**

The start screen appears when you first turn your phone on, in its idle state (see illustration on page 13). Your phone must be at the start screen in order to use most of its features.

### **When you want to get to the start screen**

Press **(END)** at any time except during a call (unless you want to hang up).

## **The main menu**

From the start screen, press **Menu** to access the main menu. When in a call, press **Options**, scroll to **Menu**, then press **Select**.

To view main menu items one by one, press ▼ or ▲.

**Select** allows you to select and enter menus and submenus.

**Back** allows you to exit the present menu or submenu and go back a level. Press repeatedly to return to the main menu, then press **Exit** to return to the start screen.

**END** returns your phone to the start screen. If you press **END** when the phone is requesting input (for example, a setting, phone number, name, etc.), the phone displays the start screen and the input is not saved.

*Remember: If you press **END** during a call, the phone will hang up!*

## Scrolling through the main menu

- 1) Press **Menu**
- 2) Press ▼ or ▲ to reach the desired menu item
- 3) Press **Select**, **Options** or **OK** (whichever appears) to enter submenus and to choose options
- 4) Press **Exit** to exit the present menu or **Back** to go back one level

## Using shortcuts

This is a quick and easy way to access a menu without having to scroll through other menus.

Press **Menu**, then menu number, then submenu number.

Press the menu and submenu numbers within a couple of seconds of each other when using this method.

*For a summary of your phone's menu structure, see "Summary of Menu Items" on page 16.*

## Help text

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

## Summary of Menu Items

*Note: If your phone has a Menu 10, to use shortcuts for Menu 1 you must press 0 first (for example, for **Service command editor** press **Menu 0 1 5**).*

### 1 Messages

#### 1 1 Text Messages<sup>1</sup>

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

#### 1 2 Message settings<sup>1</sup>

- 1 2 1 Set 1
- 1 2 2 Set 2
- 1 2 3 Set 3
- 1 2 4 Set 4
- 1 2 5 Set 5
- 1 2 6 Common

#### 1 3 Voice messages<sup>1</sup>

- 1 3 1 Listen to voice messages
- 1 3 2 Voice mailbox number

#### 1 4 News & info service<sup>1</sup>

#### 1 5 Service command editor

### 2 Call log

#### 2 1 Missed calls<sup>1</sup>

#### 2 2 Received calls<sup>1</sup>

#### 2 3 Dialed calls

#### 2 4 Clear call lists

#### 2 5 Call timers

#### 2 6 Show call costs<sup>1,4</sup>

#### 2 7 Show costs in<sup>1</sup>

### 3 Profiles

#### 3 1 Normal

#### 3 2 Silent

#### 3 3 Meeting

#### 3 4 Outdoor

#### 3 5 Pager

#### 3 6 Car<sup>2</sup>

#### 3 7 Headset<sup>3</sup>

## 4 Settings

### 4 1 Call settings

- 4 1 1 Automatic redial
- 4 1 2 Call waiting<sup>1</sup>
- 4 1 3 Send own number<sup>1,4</sup>
- 4 1 4 Line in use<sup>1</sup>
- 4 1 5 Calling card

### 4 2 Security settings

- 4 2 1 SIM card security
- 4 2 2 Phone security
- 4 2 3 Module security<sup>5</sup>
- 4 2 4 Restrict calls<sup>1</sup>
- 4 2 5 Fixed dialing
- 4 2 6 Call cost limit<sup>1</sup>
- 4 2 7 Access codes

### 4 3 Phone settings

- 4 3 1 Language
- 4 3 2 List of own numbers
- 4 3 3 Clock
- 4 3 4 Alarm clock
- 4 3 5 System selection<sup>1</sup>
- 4 3 6 Touch tone length
- 4 3 7 Notifications on SIM update
- 4 3 8 Emergency key 9

### 4 4 Analog module settings<sup>5</sup>

- 4 4 1 Digital/analog selection
- 4 4 2 Analog system selection

## 5 Forwarding<sup>1</sup>

### 5 1 Forward all voice calls<sup>1</sup>

### 5 2 Forward if busy<sup>1</sup>

### 5 3 Forward if not answered<sup>1</sup>

### 5 4 Forward when phone off or no coverage<sup>1</sup>

### 5 5 Forward when not able to take calls<sup>1</sup>

### 5 6 Forward all fax calls<sup>1</sup>

### 5 7 Forward all data calls<sup>1</sup>

### 5 8 Cancel all call forwarding<sup>1</sup>

## 6 Games

## 7 Calculator

## 8 Calendar

## 9 Keyguard

## 10 SIM services<sup>1</sup>

<sup>1</sup>Appears only if supported by your operator and/or SIM card

<sup>2</sup>Appears once used with car kit

<sup>3</sup>Appears once used with headset

<sup>4</sup>Not available in analog systems

<sup>5</sup>Appears only with the optional analog module attached

## 5. Features A-Z

### Access codes

These help protect against unauthorized use of your phone and SIM card:

- security code (see page 72)
- PIN and PIN2 codes (see page 64)
- system password (see page 77)
- module code (for optional analog module; see page 87)

Access codes consist of numbers. If the phone asks you for one of these codes, key in the requested code and press **OK**. If you make a mistake, press **Clear** to erase, then enter the correct digit.

#### To change access codes:

- 1)** Press **Menu** 4 2 7 (**Settings - Security settings - Access codes**)

(For details on how to work the Menu, see page 13)

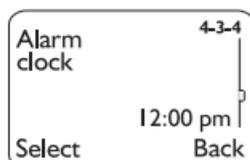
- 2)** Press **▼** to scroll through the codes you wish to change, and press **Select**
- 3)** The phone prompts you for the existing code, the new code, and verification of the new code. At each prompt, enter the information and press **OK**.

*Note: You can't change the PIN code unless SIM card security (see page 76) is on.*

*Note: Avoid using access codes that are similar to emergency numbers, such as 911, to prevent accidental dialing of the emergency number.*

### Alarm clock

The alarm clock feature is based on your phone's internal clock and sounds an alert at a time you specify. See "Clock" on page 37 for information on your phone's clock.



## Setting the alarm clock

- 1) Press **Menu 4 3 4** (**Settings - Phone settings - Alarm clock**)

*(For details on how to work the Menu, see page 13)*

- 2) Enter the alarm time, using two digits for both hours and minutes

- 3) Press **OK**

- 4) Select either **am** or **pm** and press **OK**

*Note: Step 4 is necessary only if you have selected am/pm format; see "Selecting time format" on page 37 for more information.*

## Turning the alarm clock off

- 1) Press **Menu 4 3 4** (**Settings - Phone settings - Alarm clock**)

*(For details on how to work the Menu, see page 13)*

- 2) Press **▼** to **Off** and press **OK**

## When the alarm sounds

Press **Stop** to shut off the alarm

**OR**

Press **Snooze** and the alarm will sound again in 5 minutes.

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

## If you turn off the phone

If you turn off the phone and the alarm is set, the phone switches itself on at alarm time, then the alarm sounds. If you press **Stop**, the phone displays **Keep the phone on?**. Press **Yes** to keep it on or **No** to switch it off.

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

## All calls timers

See "Call timers" on page 30.

## Analog module

See "Optional Analog Module" on page 84.

## Analog system selection

See "Analog system selection" on page 85.

## Automatic answer

This is one of the settings in your phone's profiles (see page 65). With this on, your phone answers incoming voice calls after one ring.

*Note: (1) This is available only when your phone is connected to a headset or to an approved handsfree car kit equipped with the ignition sense option, with the ignition on. (2) Automatic answer does not function if the ringing option is set to **Silent**, **Beep once**, or **Caller groups**.*

### Activating automatic answer

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

*(For details on how to work the Menu, see page 13)*

- 2) Use ▼ to select **Car** or **Headset**, then press **Options**
- 3) Choose **Customize** and press **OK**. Press ▼ to reach **Automatic Answer** and press **Select**.
- 4) Press ▼ to reach **On** (or **Off** to deactivate it)

*Note: This feature will not function with data calls.*

## Automatic redial

When this feature is turned on, your phone will redial the number you're trying to call up to 10 times. Press **END** to stop the call attempts.

*Automatic redial will not redial a busy number while you initiate or answer another call.*

### Activating automatic redial

- 1) Press **Menu 4 1 1 (Settings - Call settings - Automatic redial)**

*(For details on how to work the Menu, see page 13)*

- 2) Press ▼ or ▲ to **On** and press **OK**

## Business cards

Your phone can send or receive electronic business cards consisting of a name and phone number. You can save received business cards to your phone book. *For details on the phone book, see "Phone book" on page 61.*

### Sending business cards

- 1) Recall the name from your phone book
- 2) Press **Details**, if shown, or skip to Step 3
- 3) Press **Options**
- 4) Press ▼ or ▲ to reach **Send bus. card**
- 5) Press **Select**
- 6) Enter or recall the destination phone number
- 7) Press **OK**

### Viewing received business cards

When you receive a business card, the phone displays **Business card received** and sounds an alert (*depending on the "Message alert tone"; see page 54*).

*Caution: If you press **Exit** at any time before saving the business card, the business card will be deleted!*

- 1) When your phone displays **Business card received**, press **Options**
- 2) **Show** is selected. Press **OK**
- 3) Scroll through the available information

### Saving viewed business cards

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

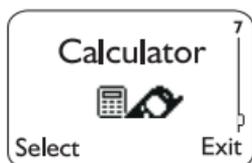
## Deleting viewed business cards

After viewing the business card, press **Back**, then press **Exit**.

## Calculator

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

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



### Using the calculator

#### 1) Press **Menu 7 (Calculator)**

*(For details on how to work the Menu, see page 13)*

#### 2) Enter the first number in the calculation

#### 3) To add, press **(\*)** once (+ appears)

To subtract, press **(\*\*)** twice (- appears)

To multiply, press **(\*\*\*)** three times (\* appears)

To divide, press **(\*\*\*\*)** four times (/ appears)

#### 4) Enter the second number

Repeat steps 3 and 4 as many times as needed.

#### 5) Press **Options**. **Equals** is selected. Press **OK**

*Note: When you are entering numbers, press **Clear** to erase any mistakes.*

*Note: You can also choose **Add, Subtract, Multiply, and Divide** from the list of options.*

### Decimals

Press the # key once to enter a decimal point.

### Currency conversion

Before you can begin converting currencies, you need to set the exchange rate.

#### 1) Press **Menu 7**, then press **Options**

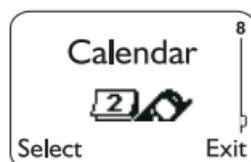
- 2) Scroll to **Exchange rate**, then press **OK**
- 3) Scroll to **How many home units to a visited unit** (to enter the number of domestic units to a foreign unit) or **How many visited units to a home unit** (to enter the number of foreign units to a domestic unit)
- 4) Press **OK**
- 5) Enter the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

Now you can do a conversion:

- 1) Enter the amount to be converted
- 2) Press **Options**
- 3) Scroll to **To home** to convert to domestic units or **To visited** to convert to foreign units
- 4) Press **OK**

## Calendar

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



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

### Using the calendar

- 1) Press **Menu 8 (Calendar)**

*(For details on how to work the Menu, see page 13)*

If you haven't set the time and date, your phone prompts you to **Set phone clock**. If you have already set the time and date, go to Step 2.

When your phone prompts you for the time with **hh:mm**, enter the time in hours and minutes (using two digits for each), then press **OK**

Press ▼ or ▲ to reach **am** or **pm**, then press **OK**

*You can set the time format to either 24-hour or am/pm using the Clock. See “Selecting time format” on page 37.*

When your phone prompts you for the date with **mm/dd/yyyy**, enter the month and day (using two digits for each) and year (using four digits), then press **OK**.

**Tip:** Use ▼ to move the cursor right and ▲ to move it left. When you enter a digit, it writes over the number to the right of the cursor.

- 2) Your phone displays the current date and gives you two choices: **Options** and **Back**

### About the date display

The phone automatically displays today’s date. To scroll to a different date, press ▼ or ▲. *To skip directly to a different date, see “Option 5: Go to date” on page 26.*

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

-  Birthday reminder
-  Meeting reminder
-  Call reminder
-  Other reminder

Once you’re at the date you want, press **Options**. Then use ▼ to select the option you want, and press **Select**. The options are:

### Option 1: View day

This option allows you to view, erase, edit, move, and send notes that were made for the selected day.

Press ▼ or ▲ to scroll through notes. Options while viewing a note are **Erase**, **Edit**, **Move** (to another date), and **Send note** (to send the note).

### **Option 2: Make note**

With this option, you'll need to choose **Reminder**, **Call**, **Meeting**, or **Birthday**. Your phone will prompt you for more information depending on which one you choose.

*See "Entering letters and numbers" on page 42 for help with entering information at the **Subject:** prompt.*

You can set an alarm for any of the note types. Your phone must be turned on in order for the alarm to sound. If you set an alarm, when the alarm sounds, you can choose **OK** or **Postpone**. Pressing **OK** stops the alarm; pressing **Postpone** resets the alarm for 10 minutes later.

### **Option 3: Erase notes**

Press ▼ or ▲ to reach **Of chosen day**, **One by one**, or **All at once**, then press **OK**.

**Of chosen day** displays each note for the day you selected before pressing **Options**, so you can delete them individually. Press **Erase** to delete the note, or press ▼ or ▲ to leave it and view other notes.

**One by one** displays notes in chronological order, birthdays first, so you can delete them individually. Press **Erase** to delete the note, or press ▼ or ▲ to leave it and view other notes.

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

### **Option 4: View all**

This option allows you to scroll through birthday notes in chronological order, then other notes in chronological order.

### Option 5: Go to date

This option allows you to go directly to the specified date instead of scrolling. Enter a date in **mmddyyyy** format, then press **OK** to go to that date.

### Option 6: Set the date

This option allows you to set today's date in your phone. Enter the date in **mmddyyyy** format, then press **OK**.

## Calendar note received

Your phone displays **Calendar note received** when someone sends you a note that you can save in your calendar. Saving a note in your calendar is equivalent to making the note yourself; you can work with it in the same way as any other note in your calendar, including setting an alarm.

*For information on sending calendar notes, see page 24.*

### Viewing received calendar notes

*Caution: If you press **Exit** the calendar note will be deleted!*

- 1) When your phone displays **Calendar note received**, press **Options**
- 2) **Show** is selected. Press **OK**
- 3) Press ▼ to scroll through the note

### Saving received calendar notes

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

### Discarding viewed calendar notes

After viewing the calendar note, press **Back**, then press **Back** again.

## Call cost limit

This feature allows you to limit the amount of money you spend on your mobile phone bills. When the limit you set is reached, no calls can be made except for emergency calls.

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

See also “Show call costs” on page 75. To choose whether you want call cost measured in charging units or dollars, see “Show costs in” on page 75.

### Setting a call cost limit

- 1) Press **Menu 4 2 6 (Settings - Security settings - Call cost limit)**

*For details on how to work the menu, see page 13.*

- 2) The phone asks for your PIN2 code (see page 64). Enter it and press **OK**.
- 3) Use ▼ to reach **Select** then press **OK**
- 4) When you see **Number of units:** enter the number of charging units or dollars (press # to insert a decimal point) and press **OK**

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

### Removing a call cost limit

- 1) Follow steps 1 and 2 in “Setting a call cost limit”
- 2) Use ▼ to reach **Off** then press **OK**

## Call forwarding

See “Forward calls” on page 45.

## Call hold

You can put a single call on hold. If you subscribe to the Call Waiting network service, you can also put one call on hold when you receive another call.

## Putting a call on hold

While in a call, press **Hold**. Press **Unhold** to return to the call.

## Making a call with one already in progress

While in a call, enter (or recall from the phone book) the second phone number and press **TALK**.

**OR**

- 1) Press **Options**
- 2) Use ▼ to reach **New call** and press **Select**.
- 3) Enter (or recall from the phone book) the second phone number, and press **Call**

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

The currently active call is indicated by the  icon and the held call by the  icon.

## Switching between two calls in progress

Press **TALK**

**OR**

Press **Swap**

## Ending the active call

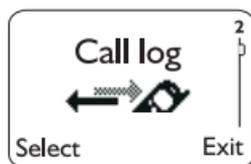
Press **END** (the held call becomes active).

## Ending both calls

- 1) Press **Options**
- 2) Use ▼ to reach **End all calls** and press **Select**.

## Call log

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



## Using call log

### 1) Press **Menu 2 (Call log)**

*(For details on how to work the Menu, see page 13)*

### 2) Press ▼ to reach one of the following options, then press **Select**

2-1 **Missed calls** - See page 56.

2-2 **Received calls** - See page 67.

2-3 **Dialed calls** - See page 39.

2-4 **Clear call lists** - See page 36.

2-5 **Call timers** - See page 30.

2-6 **Show call costs** - See page 75.

2-7 **Show cost in** - See page 75.

**Tip:** You can dial any of the phone numbers by pressing **TALK** while the number is on the display.

## The 'Options' soft key

When you access **Dialed calls**, **Missed calls**, or **Received calls** and press **Options**, a list of options will appear on your phone's display.

**Call time** shows the date and time of the last call. Press the scroll button to scroll through up to five recent call dates/times for this phone number.

**Edit number** allows you to edit the dialed number and save it with a name to your phone book.

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

**Erase** erases the number from the call list.

**View number** displays the phone number if the associated name is currently displayed.

## Call settings

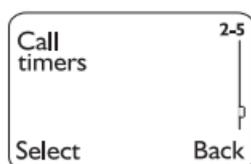
This feature consists of automatic redial, call waiting, send own number, line in use, and calling card.

See the individual entries for each of these features.

## Call timers

The phone automatically tracks the amount of time you've spent in the last call and in all digital calls.

If you have subscribed to a second phone line (see "Line in use" on page 53), call timers are separate for each of your phone lines. When you view call timers, the call timers that are shown are for the currently selected outgoing line. However, if you view call timers while you are in a call, the call timers that are shown are for the line you are using at that moment.



*For information on call timers for analog calls, see "Call timers for analog calls" on page 86.*

### Viewing duration of last call or all digital calls

- 1) Press **Menu 2 5 (Call log - Call timers)**

*(For details on how to work the Menu, see page 13)*

- 2) Press ▼ to view **Last call duration** or **Digital calls duration**

### Setting timers back to 0

- 1) Press **Menu 2 5 (Call log - Call timers)**
- 2) Press ▼ to reach **Clear digital call timers**, then press **OK**
- 3) Enter your security code, then press **OK** again

### Showing the current call timer during calls

- 1) Press **Menu 2 5 (Call log - Call timers)**
- 2) Press ▼ to reach **Last call duration**, then press **Details**
- 3) **Current call** is displayed; press **Select**
- 4) Press ▼ to reach **On**, then press **OK**

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

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

## Call waiting

This is a network service that allows you to receive an incoming call when you're already in a call. The phone beeps to let you know of the incoming call. Contact your service provider for details.

If you have subscribed to a second phone line (see page 53), call waiting settings affect both phone lines at the same time; for example, you cannot cancel call waiting on one line and not the other.

### Activating or cancelling call waiting

- 1) Press **Menu 4 1 2 (Settings - Call settings - Call waiting)**  
*(For details on how to work the Menu, see page 13)*
- 2) Press ▼ to highlight **Activate, Cancel, or Status**
- 3) Press **OK**

### Using call waiting

Press **TALK** or **Answer** to answer a waiting call. The call you were on is put on hold.

To reject the call, press **Options**, press ▼ to reach **Reject**, and press **Select**.

*Note: If you don't want to answer the call, you can also just let it ring.*

To switch between the two calls, press **TALK** or **Swap**.

To end the active call, press **Options**, scroll to **Drop call**, then press **Select**. The held call becomes active.

### Third call waiting

If you have both an active and a held call and a third call is waiting, press 1 **TALK**. This drops the active call and answers the waiting call; the held call is unaffected.

Or, you can press **Options** and scroll to **End all calls**. This ends both the active and the held call, and the waiting call is handled as a normal incoming call.

## Caller groups

You can create groups of names in your **Phone book** (see page 61), and give each group a different ringing tone. Then you'll know when someone from that group is calling you because of the way the phone rings.

### Adding names to a caller group

*Note: The names and numbers that you add to a group must already be stored in your Phone book. See "Saving names and numbers" on page 72.*

- 1) With the display clear, press ▼ until you see the name or number you want
- 2) Press **Details**, if shown, or skip to Step 3
- 3) Press **Options**
- 4) Use ▼ to reach **Caller groups**. Press **Select**.
- 5) Use ▼ to reach the group to which you want to add this name or number. Press **Select**.

### Removing names from a caller group

- 1) Follow steps 1-4 in "Adding names to a caller group"
- 2) Use ▼ to reach **No group**. Press **Select**.

### Defining a ringing tone for a caller group

- 1) With the display clear, press **Names**
- 2) Press ▼ to reach **Caller groups**. Press **Select**
- 3) Use ▼ to reach the group you want. Press **Select**
- 4) Press ▼ until you see **Ringing tone**. Press **Select**.  
Use ▼ to reach the tone you want to hear when anyone from this group calls you. Press **OK**.

**Tip:** You can set your phone to ring *only* when people from certain caller groups call you, and to otherwise be silent. See the "Caller group" description under "Ring-ing options" on page 69.

## Renaming a caller group

- 1) Follow steps 1-3 in *“Defining a ringing tone for a caller group”*
- 2) Press ▼ until you see **Rename group**. Press **Select**.
- 3) Enter the group name (see *“Entering letters and numbers”* on page 42 for details) and press **OK**

## Group graphics

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

To turn the graphic off for a particular caller group, press **Names**, scroll to **Caller groups**, and press **Select**. Scroll to the name of the group and press **Select**. Scroll to **Group graphic** and press **Select**. Scroll to **Off** and press **Select**.

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

To view the graphic that is associated with a caller group, follow the steps above, but scroll to **View graphic** in the last step. The graphic will flash; this is normal.

To send the graphic to someone else, follow the steps above, but scroll to **Send graphic** in the last step. Enter the phone number or scroll to find it in your phone book, then press **OK**.

If you receive a graphic from someone else, press **Options** and then choose **Show** to see the graphic, **Save** to save it (you will be asked to choose which caller group the graphic should be assigned to), or **Discard** to discard it.

## Caller ID

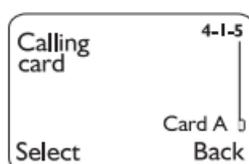
Caller ID is a network service that displays the phone number of the person calling you, if it is available. Check with your service provider for details.

If the caller can be identified, the caller's phone number (or name, if stored in the phone book) and the text **calling** appears while the phone is ringing. If the name is too long to be displayed, its end is replaced with an ellipsis (...). If the caller cannot be identified, only **Call** is displayed.

If you subscribe to the Call Forwarding network service and the incoming call has been forwarded from another phone number, the > sign is shown after **calling**.

## Calling card

If you wish to use a calling card for long distance calls, you must first store your calling card information into your phone. Your phone can store two calling cards.



### Programming a calling card

- 1) Press **Menu 4 1 5 (Settings - Call settings - Calling card)**

*(For details on how to work the Menu, see page 13)*

- 2) Press **▼** or **▲** to reach desired calling card, then press **Options**
- 3) Press **▼** or **▲** to reach **Edit**, then press **OK**
- 4) Enter security code and press **OK**
- 5) At **Dialing sequence**, press **Select**. Press **▼** or **▲** to choose the dialing sequence your card uses (see chart on page 35), then press **Select**.

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

- 6) Enter access number (usually the 1-800 number listed on the back of the calling card), press **OK**
- 7) Enter card number and/or PIN, press **OK**. Your phone will display **Save changes?**. Press **OK**.

- 8)** Press ▼ or ▲ to reach **Card name:** and press **Select**.  
Enter card name using your phone's keypad,  
press **OK**.

*(See "Entering letters and numbers" on page 42 if you need help on entering the card name.)*

*For details about your phone's security code, see "Security code" on page 72.*

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

### **Choosing a calling card to use**

- 1)** Press **Menu 4 1 5 (Settings - Call settings - Calling card)**

*(For details on how to work the Menu, see page 13)*

- 2)** Press ▼ or ▲ to reach desired card, press **Options**
- 3)** **Select** is highlighted; press **OK**
- 4)** Enter security code at **Security code:**, press **OK**

### **Making calling card calls**

- 1)** Enter the phone number, including any prefix (such as 0 or 1) that your calling card may require when you make a calling card call. See your calling card for instructions.

- 2) Press and hold **TALK** for a few seconds until your phone displays **Card call**
- 3) Your phone will display **Wait for tone, then press OK**. Wait for the tone, then press **OK**.
- 4) Your phone will display **Wait for tone, press OK again**. Wait for the tone, then press **OK**.

*Note: Steps 3 and 4 may be switched depending on the dialing sequence you chose.*

*This procedure may not work with all calling cards. Please look at the back of your calling card or contact your long distance company for more information.*

## Change access codes

See "Access codes" on page 18.

## Change module code

See "Change module code" on page 87.

## Clear call lists

This feature will clear all dialed numbers, as well as numbers of answered calls and missed calls. You cannot undo this operation, so be careful.

*Also, see "Call log" on page 28.*

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

*(For details on how to work the Menu, see page 13)*

- 2) Highlight either **All**, **Missed**, **Dialed**, or **Received** and press **OK** (**All** will clear all call lists, while the others clear their respective call lists)

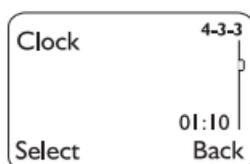
*Note: Missed, Received, and Dialed calls lists are also erased when you use a SIM card that is not one of the 5 most previous cards used with the phone, or you change the phone security setting. See "Phone security" on page 63.*

## Clear timers

See "Call timers" on page 30.

## Clock

Your phone has an internal clock that can be displayed on the start screen. It also features an alarm clock (see page 18).



### Setting the clock

- 1) Press **Menu 4 3 3 (Settings - Phone settings - Clock)**  
*(For details on how to work the Menu, see page 13)*
- 2) Press ▼ to **Adjust time**, press **Select**
- 3) Enter the current time, using two digits for both hours and minutes
- 4) Press **OK**
- 5) Select **am** or **pm** and press **OK** (if am/pm time format has been selected; see below)

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

### Selecting time format

- 1) Press **Menu 4 3 3 (Settings - Phone settings - Clock)**  
*(For details on how to work the Menu, see page 13)*
- 2) Press ▼ to **Time format** and press **Select**
- 3) Press ▼ to either **24-hour** or **am/pm**
- 4) Press **OK**

### Displaying or hiding the clock

This feature allows you to toggle between displaying the clock on the start screen or hiding it.

- 1) Press **Menu 4 3 3 (Settings - Phone settings - Clock)**  
*(For details on how to work the Menu, see page 13)*
- 2) Press ▼ to either **Hide clock** or **Display clock** (only one choice appears, depending on the current setting)
- 3) Press **Select**

## Conference calls

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

### First, call the first person

Make a call as usual.

### Then, call other participants

Either of the following methods automatically puts the existing call on hold as you make the new call:

- 1) While in a call, enter the phone number of the person you want to conference in, and press **TALK**

#### OR

Press **Options**, press ▼ to **New call**, then press **Select**. Enter or recall the phone number from the phone book, then press **Call** or **TALK**

- 2) After the second party answers, press **Options**
- 3) Press ▼ to **Conference** and press **Select**
- 4) To add other people to the call, repeat steps 1-3
- 5) To end the conference call, press **END**

### Having a private conversation with one of the participants

- 1) While in the call, press **Options**
- 2) Press ▼ to **Private** and press **Select**. A list of the participants appears.
- 3) Scroll to the desired person and press **OK**. The other participants can continue to talk to each other.
- 4) To re-join the conference call, press **Options**
- 5) Press ▼ to **Conference** and press **Select**

## Dropping individual participants from the conference call

- 1) While in a conference call, press **Options**
- 2) Press ▼ to **Private** and press **Select**. A list of the participants appears.
- 3) Scroll to the desired person and press **OK**. The other participants can continue to talk to each other.
- 4) Press **Options**
- 5) Press ▼ to **Drop call** and press **Select**

## Currency conversion

See “Currency conversion” on page 22.

## Current call duration

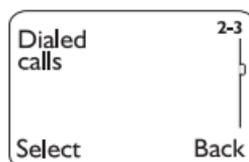
See “Call timers” on page 30.

## Data calls

See “Fax and data calls” on page 44.

## Dialed calls

Your phone automatically stores the last 10 numbers you’ve dialed. See “Call log” on page 28 for details on other call lists.



## Viewing the dialed calls list

- 1) Press **Menu 2 3 (Call log - Dialed calls)**
- 2) Press ▼ or ▲ to reach the desired number
- 3) To dial the number, press **TALK**; for other options, press **Options** (see “The ‘Options’ soft key” on page 29)

## Erasing the dialed calls list

See “Clear call lists” on page 36.

## Dice

See "Games" on page 47.

## Digital/analog selection

See "Digital/analog selection" on page 87.

## Distinct ringing

This allows you to set the phone to ring in a special way when certain people call you. See "Caller grouping" on page 33.

## Earpiece volume

The volume buttons on the side of your phone allow you to adjust the earpiece volume during a phone call. Pressing the top button increases the volume and pressing the bottom button decreases the volume.

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

## Emergency calls

*Before attempting any emergency calls, see "Emergency Calls" on page 99 for important safety information.*

- 1)** If the phone is not on, switch it on. Some networks may require that a valid SIM card is properly inserted in the phone.
- 2)** Press the **END** key to ready the phone for calls. (Press it twice if there are still digits on the display.)
- 3)** Key in the emergency number for your present location (e.g. 911 or other official emergency number). Emergency numbers vary by location.
- 4)** Press **TALK**

### **IMPORTANT!**

*This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions which cannot guarantee connection in all conditions. Therefore you should never rely solely upon any wireless phone for essential communications (e.g. 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 service providers.*

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

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

## **Emergency Key 9**

With this feature on, the phone attempts to make an emergency call when you press 9 then **TALK**. The phone dials the emergency number programmed into your phone.

*Note: This feature is not active until you follow the steps in "Turning on the Emergency Key 9 feature".*

*Note: You can also dial an emergency call by pressing and holding 9 until the phone indicates it is attempting to make an emergency call. However, this method does not work when Keyguard is active or when the phone is connected to a modem.*

### **Turning on the Emergency Key 9 feature**

- 1) Press Menu 4 3 8 (Settings - Phone settings - Emergency key 9)**

*(For details on how to work the Menu, see page 13)*

- 2) Press ▼ to reach On or Off, then press OK**

### **IMPORTANT!**

*Official emergency numbers vary by location (for example, 911). You can only program one emergency number into your phone to be dialed automatically by Emergency Key 9, and it might not be the proper number in all circumstances.*

## Entering letters and numbers

You can enter letters as well as numbers when storing information into your phone. Simply press the corresponding number key repeatedly until the desired letter appears on the display (for example, use the 2 key to enter A, B, or C).

### ABC mode

When your phone prompts you to enter letters, it will automatically switch over to ABC mode.

Your phone displays the **ABC** icon to indicate that it is in ABC mode.

When **ABC** is displayed, you can enter these characters:

Key	Characters	Key	Characters
1	.,?!-1	7	PQRS7
2	ABC2	8	TUV8
3	DEF3	9	WXYZ9
4	GHI4	0	space, 0
5	JKL5	*	<i>(See page 43 for details.)</i>
6	MNO6	#	Changes letter case

While you're editing a name, the ▲ key will move the cursor to the left, and ▼ will move it to the right.

Press **Clear** to correct any mistakes.

If you wish to enter an empty space between characters, press 0 for each space.

### Changing letter case

Press the # key to switch between upper- and lower-case letters. The **ABC** icon will switch to **abc** to indicate you are using lower case.

### Entering numbers

To enter numbers while in ABC mode, you can:

- press and hold the corresponding key until the number appears, or

- switch between ABC mode and number mode by pressing and holding the # key.

### Special characters (for storing names)

When you are in ABC mode (see page 42) you can press the **(\*)** key and the following special characters will appear. If your SIM card supports special characters, you can use these characters when storing names in your phone book. Simply press ▼ or ▲ to highlight the one you wish to use, then press **Insert**.

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

### Special characters in phone numbers

You can use special characters to dial or save international phone numbers as well as phone numbers of automated services such as bank account information. When entering numbers, press the **(\*)** key repeatedly to use these characters.

Character	Use
*	This character is used to send command strings to the network. Contact your service provider for details.
+	This character is a prefix used for dialing international numbers.
<b>p</b>	Use this character to save phone numbers of automated services that require you to enter a password or other information after the call is answered. For example, if your bank's phone number is 555-1212 and you need to enter your account number (12345) and password (6789), you could save this phone number as <b>5551212pl2345p6789</b> <i>Note:</i> In digital networks, digits to the right of the <b>p</b> are sent after a 2.5-second pause. In analog networks, digits to the right of the <b>p</b> are not sent until you press <b>Send</b> .
<b>w</b>	This character creates a wait; digits to the right of the <b>w</b> are not sent until you press <b>Send</b> . Currently this character cannot be saved.

## Erasing stored names and numbers

See “Erasing stored names and numbers” on page 63.

## Erasing your entire phone book

See “Erasing your entire phone book” on page 63.

## Fax and data calls

Your phone can send and receive data and faxes via an optional data adapter that connects to the base of the phone. The phone automatically recognizes the type of the connected terminal.

### Making a fax or data call:

- 1) Connect the appropriate data or fax terminal to the phone

If you try to make a data or fax call and the data adapter is not connected or connected incorrectly, the text **Please connect terminal** will appear. Check that the data adapter is properly set up.

- 2) Enter or recall phone number from the phone book
- 3) End the call by pressing **END**

*For more information, refer to documentation supplied with your data adapter, data application or fax application.*

*Note: You cannot make a data or fax call while you have active or held calls in progress.*

## Fixed dialing

This lets you restrict your outgoing calls to phone numbers included in the fixed dialing list or beginning with the same digit(s) as an entry in the list.

*Note: Fixed dialing works only with SIM cards that support it. For other types of call restrictions, see “Restrict calls” on page 68.*

## Turning fixed dialing on or off

- 1) Press **Menu 4 2 5 (Settings - Security settings - Fixed dialing)**

(For details on how to work the menu, see page 13)

Use **▼** to reach **On** or **Off** then press **OK**

- 2) Enter your PIN2 code and press **OK**

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

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

## Adding numbers to the fixed dialing list

- 1) Press **Menu 4 2 5 (Settings - Security settings - Fixed dialing)**

- 2) Use **▼** to reach **Numbers** then press **OK**

- 3) Use **▼** to reach **Add** then press **Select**

- 4) Enter your PIN2 code and press **OK**

- 5) Enter the name (optional) and press **OK**

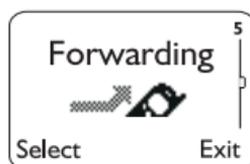
- 6) Enter the number and press **OK**

**Tip:** If supported by your SIM card, you may be able to add an entry from your phone book to the fixed dialing list. When prompted to enter a name, press the scroll button to access your phone book. Scroll to the entry you want to add, then press **OK**.

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

## Forward calls

Call forwarding is a network service that lets you forward your incoming calls to another phone number. Check with your service provider for details.



If you have subscribed to a second phone line (see page 53), call forwarding functions separately for each line. Make sure you have selected the line you want before you set up any call forwarding. Icons that appear on your phone's screen to indicate that calls have been forwarded are shown on page 1.

## Forwarding calls

### 1) Press **Menu 5 (Forwarding)**

*(For details on how to work the menu, see page 13)*

### 2) Use ▼ to reach one of the following options, then press **Select**:

#### 5 1 **Forward all voice calls**

*(Forwards all voice calls without ringing)*

#### 5 2 **Forward if busy**

#### 5 3 **Forward if not answered**

#### 5 4 **Forward when phone off or no coverage**

#### 5 5 **Forward when not able to take calls**

*(Combines the previous three types)*

#### 5 6 **Forward all fax calls**

#### 5 7 **Forward all data calls**

### 3) **Activate** is selected; press **OK**

### 4) At the **Number:** prompt, enter the phone number to which you want to forward calls and press **OK**

You can press **Number** to verify that you entered the correct number.

## Cancelling call forwarding

To cancel call forwarding, press **Menu 5 8**.

*Note: Cancelling all call forwarding may also cancel any automatic forwarding of calls to voice mail that your service provider has activated for you. Contact your service provider for details.*

## Getting call forwarding status

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

### 1) Repeat steps 1-2 in “Forwarding calls”

### 2) Use ▼ to reach **Status** and press **OK**

Press **Number** to show the phone number to which the calls are forwarded.

*Note: When **Forward all voice calls** is turned on, the  icon is displayed when the display is clear.*

## Games

Challenge yourself or a friend to the five fun games in your phone. In the main menu scroll down to **Games**, press **Select**, and choose one of the following.

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

### Memory

Reveal pictures to find pairs in as few tries as possible. Move the cursor with the 2 (up), 4 (left), 6 (right), and 8 (down) keys. Press the 5 key to reveal pictures. Press the # key to jump right over revealed pictures or move from the bottom right of the screen to the top left. Press the (\*+) key to jump left over revealed pictures or move from the top left of the screen to the bottom right. Once found, pairs stay visible.

### Snake

Feed the snake with as many goodies as possible and watch it grow. Use keys 2, 4, 6, and 8 to turn the snake toward food. The longer the snake's tail grows, the higher the score. If the snake hits its own tail or the surrounding wall, the game is over.

### Logic

Find the secret combination of figures in a column. Possible figures are shown at the top of the display. Press the 5 key repeatedly to select a figure and the 2, 4, and 8 keys to move the cursor. Once you think you have the right combination, press the (\*+) key. The result appears as a set of marks above the column. A correct figure in the right place gets a full mark; a correct figure in the wrong place gets a half mark. The game ends when the correct figures are in the right place.

**Tip:** To copy a figure from the previous column, move the cursor over it using the 2, 4, or 8 key, then press the 5 key.

### Dice

This game takes the place of an actual set of dice. Use the **Level** option to set the number of dice, up to six. You can roll, lock, and unlock each die as many times as you wish.

When you start a new game, the dice roll for a couple of seconds and then stop. Use the 4 (left) and 6 (right) keys to select a die. Press the 5 key to lock or unlock the selected die.

Press  to roll the unlocked dice again.

## Rotation

The object of the game is to arrange the numbers in order from one to nine. Rotate the numbers from within the frame in a clockwise direction using the 5 key. Use the 1 key to rotate the numbers in a counter-clockwise direction. To move the frame to another position, use the 4 and 6 keys (left and right) and the 2 and 8 keys (up and down).

## Inbox

When you receive a text message (see page 78), the text message is stored in the Inbox.

The phone displays **Message received** and the  indicator, and makes a sound (depending on the “Message alert tone”; see page 54).

## Message storage

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

*Note: Depending on your SIM card, the Inbox and Outbox can contain a total of up to 50 messages.*

## Reading messages immediately

If your phone says **Message received**, press **Read**. This takes you to the Inbox, with the new message selected. Press **Read** again. If necessary, use ▼ and ▲ to scroll through the message.

## Reading messages any time

- 1) Press **Menu 1 1 1 (Messages - Text messages - Inbox)**

*(For details on how to work the menu, see page 13.)*

A list of message headers appears.

The  icon in front of the header indicates that a message has been read. The  icon indicates that a message has not yet been read.

- 2) Use **▼** to reach the message you want, and press **Read**
- 3) If the message is long, use **▼** and **▲** to scroll through the message
- 4) The message text is followed by the sender's name or phone number, and reception date and time

*When you've seen the last message, the  indicator disappears.*

## Working with messages in the Inbox

You can access options while you're reading a message. Just press **Options**, scroll to the one you want, then press **OK**.

**Erase** deletes the message. Press **OK** to confirm.

**Reply** sends a reply to the sender of the message. Enter your message and press **Options**. Use **▼** to reach **Send** and press **OK**. The phone displays the return number. Edit the number if desired, then press **OK**.

**Edit** allows you to edit a message.

**Get number** retrieves an included phone number from a message, if there is one. You can use it like any other number. If there is more than one number, scroll to the desired number, then press **OK**.

**Forward** sends the message to someone else. Edit the message (if necessary), press **TALK**, enter the number at the **Number:** prompt, then press **OK**. Or, edit the message, then press **Options**. **Send** is selected. Press **OK**. Enter the recipient's phone number or recall it from the phone book and press **OK**.

**Details** shows these details of the message, if available: sender's name and phone number, SMS center used for sending, reception date and time, reply path availability.

## Delivery reports

Delivery reports are special text messages that let you know the delivery status of a message that you have attempted to send. (See “*Specifying settings for all messages*” on page 56.)

To read a delivery report, press **Read**. Use the scroll keys to view different details about the message that you have attempted to send.

To erase a delivery report, press **Read**, then press **Options**. Choose **Erase** to erase the report you are reading, or choose **Erase reports** to erase all of the delivery reports that are in your Inbox.

## In-call menu

While in a call, press **Options** to access the in-call menu. See separate entries for call hold, call waiting, conference calls, microphone, touch tones, and transfer a call.

## Keyguard

This feature prevents accidental key presses when your phone is in your pocket or purse by locking your keypad. If any keys are pressed while Keyguard is activated, **Press Unlock and then \*** appears.

### Activating Keyguard

Press and hold **END** until **Keys locked** appears, **OR**

Press **Menu** **\*+** **OR**

Press **Menu** 9

## Deactivating Keyguard

Press **Unlock**  **OR**

Press and hold  until **Unlock keys?** appears, then press **OK**

## Answering a call with Keyguard active

When Keyguard is active, you can only press  to answer a call.

## Some notes about Keyguard

- When Keyguard is ON, calls may be possible to the emergency number programmed into your phone (e.g. 911 or other official emergency number). However, one-key emergency dialing ('the 9 key') does not operate.
- Briefly pressing the  key turns lights on for 15 seconds.
- Keyguard is automatically turned off when the phone is connected to a car kit.

## Keypad tones

This is one of the settings in your phone's profiles (see page 65). It sets the volume of the tone that you hear when you press the phone's keys.

### Setting the keypad tones

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

*(For details on how to work the Menu, see page 13)*

#### 2) Use ▼ to highlight the profile you want to set the keypad tones for, and press **Options**

#### 3) Highlight **Customize** and press **OK**. Press ▼ to **Keypad tones** and press **Select**.

#### 4) Press ▼ to scroll through the options; your phone plays a sample of each. Press **OK** for the one you want.

## Language

Because many wireless phone customers speak English as a second language, your phone allows you to choose your phone's displayed language.



### Choosing a language for your phone

- 1) Press **Menu 4 3 1** (**Settings - Phone settings - Language**)

*(For details on how to work the Menu, see page 13)*

- 2) Use ▼ or ▲ to select the language you want and press **OK**

*Note: A shortcut for choosing English is to press **Menu 4 3 1 1**.*

## Last call duration

See "Call timers" on page 30.

## Last number redial

To redial the last dialed number, press **TALK** twice while at the start screen.

### To dial any of the 10 last dialed numbers

Press **TALK**, then press ▼ to reach the desired number, and press **TALK** again. You can also view this list using the menu; see "Dialed calls" on page 39.

## Lights

To turn your phone's lights on for 15 seconds, press any key. If Keyguard is on, press the power key.

If you are using your phone with a handsfree car kit, you can set lights to **On** (lights stay on) or **Automatic** (after 15 seconds, lights turn off until the next key is pressed, phone rings, etc.). Do this by customizing your phone's **Car** profile (see "Profiles" on page 65).

## Line in use

Alternate line service allows you to have more than one phone number. Contact your service provider for details. If you subscribe to this service, you can choose which phone number you want to make calls with. You can receive calls on either line regardless of the line selected for outgoing calls.

Voice mail, call timers, and forwarding calls work separately on the second phone line. See the individual entries regarding these features for more information.

### Selecting an outgoing line

- 1) Press **Menu 4 1 4 (Settings - Call settings - Line in use)**

*(For details on how to work the menu, see page 13)*

- 2) Use ▼ to reach the line you want, and press **OK**

*Note: If you switch the phone on with a new SIM card, the phone chooses Line 1 automatically.*

### Line numbers on your phone's screen

When Line 1 is selected for outgoing calls, **1** appears on the start screen. When Line 2 is selected for outgoing calls, **2** appears on the start screen.

When you receive a call on the line that is *not* selected for outgoing calls, that line number flashes on your phone's screen. Once you have answered the call, the number of the outgoing line is displayed again.

## List of own numbers

If your SIM card supports this feature, you can view the phone number(s) of your SIM card.

### Viewing own numbers

- 1) Press **Menu 4 3 2 (Settings - Phone settings - List of own numbers)**

*(For details on how to work the menu, see page 13)*

- 2) Use ▼ to reach the desired entry (for example, the name of the service provider and "PCS")

## Listen to voice messages

See "Voice messages" on page 80.

## Logic

See "Games" on page 47.

## Memory

See "Games" on page 47.

## Menu

See "Working The Menu" on page 13.

## Message alert tone

This is one of the settings in your phone's profiles (see page 65). It sets the tone that your phone makes when you get a text message.

Also, see "Text messages" on page 78.

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

(For details on how to work the Menu, see page 13)

### 2) Use ▼ to highlight the profile you want to set the message alert tone for, and press **Options**

### 3) Highlight **Customize** and press **OK**. Press ▼ to reach **Message alert tone**, then press **Select**.

### 4) Use ▼ to scroll through your choices (your phone plays samples) and press **OK**

## Message received

Text messaging is a network service that allows you to send and receive text messages with your phone (see "Text messages" on page 78). Check with your service provider for details.

When you receive a text message, the phone displays **Message received** and the  indicator, and makes a sound (depending on the "Message alert tone"; see page 54).

To read the message, press **Read**. This takes you to the Inbox, with the new message selected. Press **Read** again to read the message.

*See “Inbox” on page 48 for more details on received text messages.*

## Message settings

Text messaging is a network service that allows you to send and receive text messages with your phone (see “Text messages” on page 78). Check with your service provider for details.

You can specify some of the ways your phone handles text messages. Depending on your SIM card, you can have up to five “sets” of settings—for example, one for e-mail messages, one for pages, one for faxes, etc.

### Specifying a set of message settings

- 1) Press **Menu 1 2 (Messages - Message settings)**

*(For details on how to work the menu, see page 13)*

- 2) Press ▼ to reach the set you want to specify settings for, and press **Select**
- 3) Press ▼ to reach the options listed below and press **Select**

**Message center number:** Either enter the message center phone number and press **OK**, or press **Search** to get the number from your phone book (if it is stored there).

*Your service provider gives you your message center number. You need it to send text messages.*

**Messages sent as:** Use ▼ to reach **Text, Fax, Page** or **E-mail** format, then press **OK**.

*In order to receive a converted message, the recipient needs to have the appropriate terminal device.*

**Message validity:** Use ▼ to reach the amount of time that messages are stored at the message center, then press **OK**.

**Rename this set:** Enter a new name for this set of message settings and press **OK**.

## Specifying settings for all messages

- 1) Press **Menu 1 2 6 (Messages - Message settings - Common)**

*(For details on how to work the menu, see page 13)*

- 2) Press **▼** to reach **Delivery reports** or **Reply via same center** and press **Select**

**Delivery reports:** Press **▼** to reach **Yes** or **No** then press **OK**. **Yes** means that the network will try to send delivery reports for the messages you send.

**Reply via same center** means that the network will try to route the reply to this text message via your own message center.

## Microphone

You can mute and unmute your phone's microphone while a call is in progress. The difference between mute and hold is that mute allows you to continue to hear the other person.

To mute the phone's microphone during a call; press **Options**, scroll to **Mute**, then press **Select**. To unmute the microphone, press **Unmute**.

*Note: If you are using the optional analog module, **Mute** appears as the right softkey during a call. Press **Mute** to mute the microphone and **Unmute** to unmute it.*

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

## Missed calls

Your phone automatically stores the last 10 numbers that have tried unsuccessfully to reach you. See "Call log" on page 28 for details on other call lists.

## When the display says **Missed calls**

Press **List**. If you have missed more than one call, you can scroll through the list of numbers. To dial the displayed number, press **TALK**; for options, press **Options** (see “The ‘Options’ soft key” on page 29); to exit, press **Back**.

## Viewing the missed calls list at any time

- 1) Press **Menu 2 1 (Call log - Missed calls)**
- 2) Press **▼** or **▲** to reach the desired number
- 3) To dial the number, press **TALK**; for other options, press **Options** (see “The ‘Options’ soft key” on page 29)

## Erasing the missed calls list

See “Clear call lists” on page 36.

## Module call timers

See “Call timers for analog calls” on page 86.

## Module security

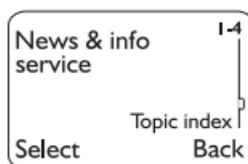
See “Module security” on page 88.

## Names

See “Working The Menu” on page 13 and “Phone book” on page 61.

## News & Info service

This network service allows you to receive news and information from the network. Contact your service provider for details.



## Using the News & Information service

- 1) Press **Menu 1 4 (Messages - News & info service)**

(For details on how to work the menu, see page 13)

**2)** Use ▼ to reach one of the following options and press **OK**

**On** - Turns on News & Info reception.

**Off** - Turns off News & Info reception.

**Topic index** - Gets a list of available topics from the network.

**Topics** - Lets you work with the available topics. See *“Working with Topics”*.

**Language** - Chooses the language for messages. Scroll to the language(s) you want and press **Mark** for each one you want. Then press **Back**, then **Yes** to save or **No** to ignore the changes.

### **Working with topics**

Once you’ve chosen **Topics** in Step 2 above, you have the following choices.

#### **Select**

**1)** Use ▼ to scroll through available topics.

**2)** Press **Mark** to select or **Unmark** to deselect a topic. Repeat this as many times as you need.

**3)** Press **Back**

**4)** Press **Yes** to save your changes or **No** to ignore the changes

#### **Add new**

**1)** Enter the topic number and press **OK**.

**2)** Enter the name and press **OK**.

#### **Edit**

**1)** Use ▼ to reach the topic you want to edit.

**2)** Edit the number and press **OK**. Repeat this with the name.

#### **Erase**

**1)** Use ▼ to reach the topic you want to erase and press **OK**.

## One-touch dialing

This feature allows you to make phone calls quickly and easily with the touch of a button.

The second through eighth phone numbers you store to your phone book are automatically assigned to keys 2 through 8. You can change the key assignments using the following procedure.

*Note: Keys 1 and 9 are used exclusively for dialing your voice mailbox and for attempting emergency calls (See "Voice messages" on page 80 and "Emergency Calls" on page 99).*

### Storing one-touch dial locations

At the start screen,

- 1) Press **Names**
- 2) Press ▼ or ▲ to highlight **1-touch dialing**
- 3) Press **Select**
- 4) Press ▼ or ▲ to scroll to the desired key
- 5) Press **Assign**
- 6) Press ▼ or ▲ to choose the name you want to assign to the selected key, then press **OK**

### Calling a number using one-touch dialing

Press and hold a key (2 through 8) for a few seconds to call the number in the corresponding one-touch dial location. Your phone recalls the phone number from the memory, displays it briefly, then dials it.

*Note: If you press and hold 1, your phone calls your voice mailbox. If you press and hold 9 and Emergency Key 9 is on, your phone attempts a call to the emergency number programmed into your phone.*

### Changing numbers in one-touch dial list

With this feature, you can assign a different number to any one-touch dial location.

At the start screen,

- 1) Repeat steps 1 through 3 in "Storing one-touch dial locations"

- 2) Press ▼ or ▲ to select location you wish to change
- 3) Press **Options**
- 4) Press ▼ or ▲ to **Change**, then press **Select**
- 5) Press ▼ or ▲ to select different name for location and press **OK**

### **Erasing one-touch dial locations**

- 1) Repeat steps 1 through 3 in “*Storing one-touch dial locations*”
- 2) Press ▼ or ▲ to select location you wish to erase
- 3) Press **Options**
- 4) Press ▼ or ▲ to **Erase**, then press **Select**
- 5) At the **Erase?** prompt, press **OK**

## **Outbox**

Text messages that you have written and saved are stored in the Outbox. The  icon in front of a message heading shows that you have attempted to send the message to the text message center. The  icon shows that you have not yet tried to send the message.

### **Using the Outbox**

- 1) Press **Menu** 1 1 2 (**Messages - Text messages - Outbox**)
- 2) Use ▼ to scroll through the message headers. Press **Read** to read the selected message.

### **Working with messages in the Outbox**

While reading a message, press **Options** to work with messages. Scroll to one of the following options:

**Erase** deletes the message. Press **OK** to confirm the erase or **Back** to exit.

**Edit** allows you to edit the message. Use **Clear** to back-space over letters, ▼ or ▲ to move the cursor, and the

number keys to enter letters. (See “Entering Letters” on page 42 for details.) When you’re done, press **Options** again. You get the same options you get while writing a new message (**Send**, **Send special**, **Save**, and **Clear screen**). See “Write messages” on page 82.

**Get number** displays the number that was included in the message (if available). You can treat it like any other number.

**Forward** forwards the message to someone else. The steps are the same as sending a message. See “Write messages”, *Send option*, on page 83.

## Phone book

Depending on your SIM card, you can store up to 250 numbers (and associated names) in the phone book. Actual number is dependent on SIM Card capacity. Please check with your SIM Card provider or carrier. (See “Checking available memory” on page 63.) These numbers are right at your fingertips for easy dialing. To access them, simply press ▼ or ▲ from the start screen.

### Things to know about the phone book

- The maximum length of stored numbers and names depends on your SIM card.
- A name may appear only once in memory. If you try to store a name that already exists in memory, the phone will ask if you want to replace the currently stored name.

### Accessing names in the phone book

At the start screen, press ▼ or ▲. To skip ahead quickly in the list, press the number key that corresponds to the first letter of the name. Press **TALK** to call the number.

### Accessing phone book functions

At the start screen,

- 1) Press **Names**
- 2) Press ▼ or ▲ to highlight desired submenu
- 3) Press **Select**

## About the submenus

The phone book has several submenus from which you can choose.

**Search** allows you to search for a specific name.

**Add new** allows you to enter new names and numbers.

**Erase all** lets you erase every name and number in your phone book. You can erase one name and number at a time by pressing **Details**, then **Options** when viewing a name already in the directory.

**Options** lets you choose your scrolling view (**Name list**, **Name + number**, or **Name only**), as well as check how many more names your phone can store (see “*Checking available memory*” on page 63).

**1-touch dialing** allows you to assign up to seven one-touch dial locations (see page 59 for details).

**Caller groups** allows you to rename or change the ringing tone for a caller group (see “*Caller groups*” on page 32).

## Storing a name and number

- 1) Press **Names**
- 2) Scroll to **Add new** and press **Select**
- 3) Enter name using the keypad (use # to switch between upper and lower case) and press **OK**
- 4) Enter phone number and press **OK**



If your phone book is full, you will be given the option to replace an existing entry.

Also, see “*Entering letters and numbers*” on page 42 and “*Saving names and numbers*” on page 72.

## Changing a stored number or name

- 1) Recall stored name
- 2) Press **Options**, then select **Edit**

- 3) Edit the name, if desired, then press **OK**
- 4) Edit the number, if desired, then press **OK**

### **Erasing stored names and numbers**

At the start screen,

- 1) Recall stored name
- 2) Press **Options**
- 3) Highlight **Erase**, then press **Select**, then **OK**

*Note: You cannot undo Erase functions so be careful!*

### **Erasing your entire phone book**

- 1) Press **Names**
- 2) Press ▼ to highlight **Erase all**
- 3) Press **Select**
- 4) Press **OK** at **Are you sure?**
- 5) Enter security code at **Security code:**
- 6) Press **OK**

*Warning: This feature will erase your entire phone book, which cannot be undone!*

### **Checking available memory**

- 1) Press **Names**
- 2) Press ▼ or ▲ to reach **Options**, then press **Select**
- 3) Press ▼ or ▲ to reach **Memory status**, then press **Select**

Your phone will tell you how many memory locations are free and how many are being used. (One number and associated name is stored in each memory location.)

## **Phone security**

You can set the phone to require the security code when you switch on the phone after installing a new SIM card.

## Setting phone security

- 1) Press **Menu 4 2 (Settings - Security settings)**
- 2) Press **▼** to reach **Phone security** then press **Select**
- 3) Enter your security code and press **OK**
- 4) Use **▼** to reach **Off** or **On**, and press **OK**

**Off** means that the security code is not required when the phone is switched on.

**On** means that the when you switch on the phone and you're using a new SIM card, the phone will require you to enter the security code.

## Phone settings

Menu 4 3 in your phone lets you choose settings for the following items (each entry is described separately in this guide):

- **Language** of the menus and display
- **List of own numbers** (your own phone numbers, if more than one, that your SIM card can use)
- **Clock** (set the time and time format, hide the clock)
- **Alarm clock** (set alarm time)
- **System selection** (how your phone chooses a network to use if more than one is available)
- **Touch tone length** (short or long)
- **Emergency key 9** (on or off)

## PIN and PIN2 codes

The PIN (Personal Identity Number) code is a 4- to 8-digit number usually supplied with the SIM card given to you by your service provider. If you use "SIM card security" (see page 76), the phone will require you to enter the PIN code every time you switch on the phone.

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

If you enter a wrong PIN code three times in succession, enter the PUK code (see “*PUK and PUK2 codes*” on page 66) and press **OK**. Enter a new PIN code and press **OK**. Re-enter the new code and press **OK**.

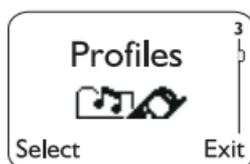
The PIN2 code is a 4- to 8-digit number and is supplied with some SIM cards. It is required to access some functions. These functions must be supported by your SIM card.

If you enter a wrong PIN2 code three times in succession, follow the same instructions as for the PIN code but this time using the PUK2 code.

See “*Access Codes*” on page 18 for information on how to change either of these codes.

## Profiles

You can adjust and customize your phone to whatever environments you find yourself in (i.e. meetings, a movie, etc.). With profiles, you can control your phone's lights, ringing volume, ringing tone, message alert, keypad tones, warning tones, etc. in a matter of seconds.



*Note: The default setting is **Normal**.*

### Accessing profiles

At the start screen, press **Menu 3**

### Selecting different profiles

If you want to change your phone's profile, briefly press the **Ⓢ** key. Then press **▼** or **▲** to choose another profile and press **OK**. This allows you to select other profiles, but not customize them.

*Note: When you connect your phone to a headset or a handsfree car kit, the phone automatically selects the **Headset** or **Car** profile. You cannot choose a different profile while these accessories are connected.*

## Customizing profiles

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

*(For details on how to work the Menu, see page 13)*

- 2) Press **▼** or **▲** to reach the desired profile

- 3) Press **Options** to see the following choices:

**Select** activates the currently selected profile.

**Customize** allows you to customize a profile by changing the current settings. (If you choose **Customize**, you'll have access to several lists and sub-menus that will enable you to adjust the settings on the current profile. When you change a setting in the current profile, it only affects that preset menu and will not change your phone's normal settings.)

**Rename** allows you to rename any profile except the Normal profile.

- 4) Press **▼** or **▲** to reach the desired item
- 5) Press **OK**. If you wish to go back to the main menu, press **Back**.

## Renaming profiles

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

*(For details on how to work the Menu, see page 13)*

- 2) **▼** or **▲** until desired profile is highlighted

*Note: You cannot rename the Normal profile.*

- 3) Press **Options**

- 4) **▼** or **▲** to **Rename**

- 5) Press **OK**

- 6) Enter new name and press **OK**

## PUK and PUK2 codes

The PUK (Personal Unblocking Key) may be supplied with the SIM card. If not, contact your service provider for the code. The code is required to change a blocked PIN code.

If you enter a wrong PUK code ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

The PUK2 code, supplied with some SIM cards, is required to change a blocked PIN2 code. If you enter a wrong code ten times in succession, you can't use the functions requiring the PIN2 code. Contact your service provider for a new card.

You can't change the PUK or PUK2 code. If you lose it, contact your service provider.

## Read messages

See "Inbox" on page 48.

## Recalling saved names and numbers

With a clear display, press ▼ to begin scrolling through stored names and numbers. See "Phone book" on page 61 for a description of the **Details** key.

## Received calls

Your phone automatically stores the phone numbers of the 10 most recent calls you've answered. See "Call log" on page 28 for details on other call lists.

### Viewing the received calls list

- 1) Press **Menu 2 2 (Call log - Received calls)**
- 2) Press ▼ or ▲ to reach the desired number
- 3) To dial the number, press **TALK**; for other options, press **Options** (see "The 'Options' soft key" on page 29)

### Erasing the received calls list

See "Clear call lists" on page 36.

## Recharge battery

See "Charging your new battery" on page 7.

## Restrict calls

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

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

### Restricting calls

- 1) Press **Menu 4 2 4 (Settings - Security settings - Restrict calls)**
- 2) Use ▼ to 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, i.e. 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 a normal way.

*Note: If you selected **Cancel all call restrictions**, the steps which follow will not be available.*

- 3) Use ▼ or ▲ to reach one of the following options, and press **OK**:

**Activate:** The phone will ask you to enter the System password. Enter it and press **OK**.

**Cancel:** The phone will ask you to enter the System password. Enter it and press **OK**.

**Status:** The phone will list the call types for which the call restriction is active. Use ▼ or ▲ to scroll through the list.

For more information about your system password, see “System password” on page 77.

## Ringling options

This is one of the settings in your phone’s profiles (see page 65). You can choose how your phone notifies you of an incoming call. This setting does not affect incoming text message alert tones (see page 78).

### Selecting ringling options

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

*(For details on how to work the Menu, see page 13)*

**2)** Use ▼ to highlight the profile you want to set the ringling options for, and press **Options**

**3)** Highlight **Customize** and press **OK**. Press ▼ to **Ringling options**, then press **Select**.

**4)** Highlight your choice (described on next page) and press **OK**

**Ring:** The phone rings.

**Increasing:** The ringling volume starts low and increases with successive rings.

**Ring once:** The phone rings once.

**Beep once:** The phone gives a short beep.

**Caller groups:** Sets the phone to “Silent” *except* for calls from people in selected caller groups (see “Caller grouping” on page 33). Press ▼ to highlight the desired group(s) and press **Mark** to select or **Unmark** to de-select them.

Press **Back** and then **Yes** to save or **No** to ignore the changes. If you have any caller groups marked, the phone does not ring unless the call is from a person who belongs to the selected group(s).

**Silent:** The phone sounds no tone.

*When **Silent** is selected and keypad tones, warning tones and message alert tone are turned off, the  icon is shown when the display is clear.*

*Note: The call alert setting is stored individually for operation with a handsfree headset and a handsfree car kit.*

## Ringling tone received

Your phone can receive ringling tones that can be saved as the **Personal** entry in your list of ringling tones. Contact your service provider for details about sending ringling tones to your phone.

When your phone receives a ringling tone, it displays **Ringling tone received**.

### Listening to received ringling tones

*Caution: If you press **Exit** at any time before saving the ringling tone, the ringling tone will be deleted!*

- 1) When your phone displays **Ringling tone received**, press **Options**
- 2) **Playback** is selected. Press **OK**. The phone plays the ringling tone.

### Saving received ringling tones

- 1) After listening to the ringling tone, press **Back**
- 2) Use ▼ to reach **Save tone** and press **OK**

The tone is saved to the **Personal** entry in your list of ringling tones.

### Deleting received ringling tones

After listening to the ringling tone, press **Back**, then press **Exit**.

## Ringling tones

You can assign ringling tones to profiles (see page 65) and to caller groups. This entry describes how to set ringling tones for profiles. *For information on setting tones for caller groups, see “Defining a ringling tone for a caller group” on page 32.*

As outlined in the table below, the sound your phone makes when you receive a call depends on the ringing option for the currently selected profile, whether the caller is assigned to a caller group, and, if the **Caller groups** ringing option is selected, *which* caller group the caller belongs to.

Ringing option for currently selected profile (see page 69)					
	Ring/Increasing/ Ring once	Beep once	Silent	Caller groups	
Caller is not in a caller group	Profile ringing tone	Beep	No sound	No sound	
Caller is in a caller group	Caller group ringing tone	Beep	No sound	Caller is in a marked caller group	Caller group ringing tone
				Caller is in an unmarked caller group	No sound

## Selecting ringing tones

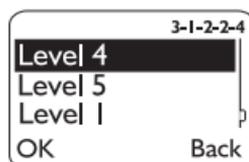
### 1) Press **Menu 3 (Profiles)**

(For details on how to work the Menu, see page 13)

- Use ▼ to highlight the profile you want to set the ringing tones for, and press **Options**
- Highlight **Customize** and press **OK**. Press ▼ to **Ringing tone**, then press **Select**.
- Press ▼ to scroll through the options. After you hear the tone you wish to use, press **OK**.

## Ringing volume

This is one of the settings in your phone's profiles (see page 65). It sets the default ringing volume for incoming voice calls and message alert tones.



## Setting the ringing volume

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

(For details on how to work the Menu, see page 13)

- 2) Use ▼ to highlight the profile you want to set the ringing volume for, and press **Options**
- 3) Highlight **Customize** and press **OK**. Press ▼ to **Ringing volume**, then press **Select**.
- 4) Press ▼ to scroll through the options. When you hear the volume level you wish to use, press **OK**.

## Saving names and numbers

You can save names and numbers in the Phone book. Either use the method described in “Phone book” under the option **Add new** (see “About the submenus” on page 62), or the “quick save” methods described below. If your phone book is full, you will be given the option to replace an existing entry.

### Quick save of name and number

At the start screen,

- 1) Enter the phone number and press **Save**
- 2) The phone prompts you to enter a **Name:**. Enter a name if you wish (optional), then press **OK**.

*For details on entering names, see “Entering letters” on page 42.*

### Quick save of number only

To save a number quickly, enter the phone number, then press *and hold* **Save**. The number is saved to your phone book and you can add a name to it later.

## Security code

The security code is required by some security features including “Phone security” (see page 63).

When the phone requires the security code, it displays **Security code:**. Enter the code then press **OK**.

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

This code comes with your phone. The default security code is 12345. *For information on how to change the security code, see “Access codes” on page 18.* Keep the code secret and in a safe place, separate from the phone.

## Security settings

Menu 4 2 in your phone lets you choose settings for the following items (each entry is described separately in this guide):

- **SIM card security**
- **Phone security**
- **Module security** (appears only if optional analog module attached)
- **Restrict calls**
- **Fixed dialing**
- **Call cost limit**
- **Access codes**

The following table provides a summary of how different types of security codes are used in your phone.

Code	Purpose	For more information
Security code	Required by several phone features. If phone security is on, the phone requests the security code the first time you use it after installing a new SIM card.	See entries for call timers, calling card, phone book, and phone security.
PIN code	If SIM card security is on, the phone requests the PIN code every time the phone is turned on.	See “SIM card security” on page 76.
PIN2 code	Required by several phone features.	See entries for show call costs, call cost limit, fixed dialing, and PIN and PIN2 codes.
System password	Required by the Restrict Calls feature.	See “Restrict calls” on page 68.
Module code (used with optional analog module only)	If module security is on, the phone requests the module code when the phone is turned on, the optional analog module is attached, and either (a) the module code has not been changed from the default of 12345, or (b) the module code has been changed but it is different from the security code.	See “Module security” on page 57.

## Send own number

This is a network service that specifies whether or not you wish to display your phone number to the person you are calling. Contact your service provider for details.

*Note: This feature is only effective when calling to a number that is equipped with Caller ID.*

- 1) Press **Menu 4 1 3** (**Settings - Call settings - Send own number**)

*(For details on how to work the Menu, see page 13)*

- 2) Press **▼** to reach **Preset** (to use the default network setting), **On** (to show your number), or **Off** (to not show it) and press **OK**

*Note: These menu items may vary by SIM card and service provider.*

If you don't make a selection, your phone uses the default network setting. Check with your service provider to find out the network default.

## Service command editor

*Note: This feature is not supported over analog networks.*

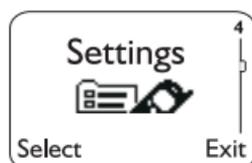
You can use this feature to activate network services remotely by using numeric commands that you get from your service provider.

### Sending commands

- 1) Press **Menu 1 5** (**Messages - Service command editor**)
- 2) Enter the service command, including numbers
- 3) Press **Send**

## Settings

Menu 4 in your phone lets you choose settings for your phone. It consists of the following areas, which are described under their own headings:



- **Call settings**
- **Security settings**
- **Phone settings**
- **Analog module settings** (*appears only when optional analog module attached*)

## Show call costs

This network service allows you to check the cost of the last or current call, or the total cost of all calls that you have made or received since the counters were last reset. Contact your service provider for details.

*To choose whether call costs are shown in charging units or in dollars, see "Show costs in".*

*Note: This feature is not supported in analog mode (using the optional analog module).*

### Show call costs

- 1) Press Menu 2 6 (Call log - Show call costs)**
- 2) Press ▼ to see Last call cost** (cost of last call, or current call if applicable) or **All calls cost** (cost of all calls since counters were last reset)

### Clear call cost counters

- 1) Press Menu 2 6 (Call log - Show call costs)**
- 2) Press ▼ to reach Clear counters.** This resets all cost counters. (You will be prompted to enter the PIN2 code to do this.)

*Caution: The clear counters command cannot be undone.*

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

## Show costs in

This feature allows you to choose whether you want to show call costs and set call cost limits in charging units or in dollars.

*Note: This feature appears only if supported by your operator and SIM card.*

- 1) Press **Menu 2 7 (Call log - Show costs in)**
- 2) Press **▼** or **▲** to reach **Currency** or **Units**, then press **Select**
- 3) If you selected **Currency**, enter the price of each charging unit (contact your network operator for this information) and press **OK**. If you chose **Units**, call costs and call cost limits will be measured in charging units.

## **SIM card security**

You can set the phone to require you to enter the PIN code every time you switch on the phone. Note that some SIM cards do not allow this feature to be turned off.

- 1) Press **Menu 4 2 1 (Settings - Security settings - SIM card security)**
- 2) At the prompt, enter your PIN code and press **OK**
- 3) Press **▼** to reach **On** or **Off**. Press **OK**.

## **SIM services**

Your wireless service provider may provide additional services that are available in Menu 10 of your phone. Menu 10 appears only if supported by your service provider and SIM card. The name and contents of this menu depend entirely on the services available. Any questions about service availability, rates, and instructions must be directed to the company that sold you your SIM card.

You can set the phone to display confirmation messages sent between your phone and the network when you are using SIM services by pressing **Menu 4 3 7 (Settings - Phone settings - Notifications on SIM update)**, and choosing **Shown**.

*Note: Accessing these services may involve sending a text message (SMS) or making a phone call, for which you may be charged.*

## Snake

See "Games" on page 47.

## Start screen

See "What is the 'start screen'?" on page 14.

## System password

This is a password you get from your service provider. You need it to activate Call Restrictions. (See "Restrict calls" on page 68.)

Contact your service provider for details.

## System selection

This menu specifies how the phone should choose a PCS system (network), as there may be more than one available. The selection you make stays active until you change it or change the SIM card.

- 1) Press Menu 4 3 5 (Settings - Phone settings - System selection)**
- 2) Press ▼ to highlight Automatic or Manual. Press Select.**

In **Automatic**, the phone automatically selects one of the available systems. The phone beeps when it switches to another system.

In **Manual**, the phone searches for available systems then lists them. Use ▼ to highlight the one you want and press **Select**. The phone then requests registration, and displays the result. If you lose connection while in Manual mode, the phone prompts you to select a system again.

*For information on analog system selection, see "Analog system selection" on page 85.*

## Text messages

The text message network service allows you to send short text messages to other phones that have text message capability. You can also ask the service provider to convert the message to other formats such as email and fax. The messages are first sent to your Message Center, then delivered to the recipient.

To send and receive text messages, the phone needs your message center number. See *“Message settings” on page 55.*

### See these related topics

- “Inbox” on page 48 for information on received messages.
- “Outbox” on page 60 and “Write messages” on page 82 for information on writing and sending.

## Touch tone length

This feature allows you to set the length of touch tones.

### Setting touch tone length

- 1)** Press **Menu 4 3 6 (Settings - Phone settings - Touch tone length)**
- 2)** Press **▼** or **▲** to reach **Short** (sets the tone length to 100 ms.) or **Long** (sets the tone length to 500 ms.)
- 3)** Press **OK**

## Touch tones

Your phone can generate various sounds, called touch tones, when the keys are pressed.

Touch tones can be used for many automated, over-the-phone services such as voice mail, calling cards, and checking airline arrival/departure times and bank balances. Touch tones can be sent only when a call is active.

## Storing touch tone strings

Touch tone strings can be used for sending and receiving information with your phone. For example, you can store your office voice mailbox number along with your password for easy access to your messages.

Store touch tone strings the same way you store phone numbers (see page 62).

You can store a whole digit sequence in your phone book and send it as touch tones for frequently used strings of numbers.

## Sending a touch tone string

During a call,

- 1) Press **Options**
- 2) Scroll to **Touch tones** and press **OK**
- 3) Enter touch tone string or recall string from the phone book and press **OK**

*Note: Use caution when sending confidential information over the air when using touch tones in analog mode.*

## Storing touch tone strings with phone numbers

- 1) Enter the phone number (for example, your office voice mailbox)
- 2) Press **\*+** three times (“**p**” appears)

*Note: See “Special characters in phone numbers” on page 43.*

- 3) Enter the touch tone string (for example, voice mailbox password)
- 4) Store the number as you normally would

When you dial this number, your phone first dials the phone number, waits 2.5 seconds (because of the “**p**” character), then sends the rest of the touch tone string.

## Transfer a call

If your network and SIM card support this feature, when you have one active and one held call, you can connect the two calls and disconnect yourself from the call.

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

## Vibrating alert

This is one of the settings in your phone's profiles (see page 65). If your phone has the BMS-2V vibrating battery attached, you can set your phone to vibrate when you receive a voice call.

### Activating vibrating alert

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

*(For details on how to work the Menu, see page 13)*

#### 2) Press ▼ to highlight the profile you want to set the vibrating alert for, and press **Options**

#### 3) Highlight **Customize** and press **OK**. Press ▼ to reach **Vibrating alert**, then press **Select**.

#### 4) Use ▼ to highlight **On** or **Off** and press **OK**. If you choose **On**, your phone will vibrate even if you have set **Ringtone options** (see page 69) to **Silent**.

*Note: The vibrating battery does not vibrate when the phone is connected to or placed in any charging device.*

## Voice mailbox number

*This number dials your voice mailbox. See "Voice messages" in the next section.*

## Voice messages

Voice mail is a network service that may require a subscription from your service provider.

Your phone will notify you when you receive a voice message. **New voice message** will appear on the display along with the  icon, and you'll hear a short beep.

Your phone will display the number of voice messages if you've received more than one. If you have subscribed to a second phone line (see "Line in use" on page 53), the phone tells you which line the message was intended for.

### **Setting up your voice mailbox**

Before you can retrieve any voice messages, you need to store your voice mailbox number. Your service provider usually gives this number to you.

When you're ready to store your voice mailbox number, press **Menu 1 3 2 (Messages - Voice messages - Voice mailbox number)**. Then enter your voice mailbox phone number and press **OK**. This number can be up to 32 digits long and is used until you change it. If your phone number changes, you may need to change your voice mailbox number along with it.

If you have subscribed to a second phone line (see "Line in use" on page 53) and have a voice-mail subscription for both lines, you will need to save each voice mailbox number separately. Select Line 1 as outlined on page 53, then save the voice mailbox number for Line 1 according to the preceding instructions. Next, select Line 2 as outlined on page 53, then save the voice mailbox number for Line 2 according to the preceding instructions.

### **Greetings, passwords, and prompts**

These may vary in different wireless systems. If you need information about how to record your greeting, delete voice messages, change your password, etc., contact your service provider.

### **Listening to your voice messages**

If **New voice message** is displayed, just press **Listen** and follow the instructions. If you'd rather listen to your messages later, press **Exit**.

To listen to messages anytime, press and hold the 1 key. Or if you prefer, you can access your voice mailbox by pressing **Menu 1 3 1 (Messages - Voice messages - Listen to voice messages)**.

## Volume

See the separate entries for Earpiece volume, Keypad tones, and Ringing volume.

## Warning and game tones

This is one of the settings in your phone's profiles (see *page 65*). Warning tones include tones your phone makes for conditions such as errors, confirmations, power on, battery low, and recharge battery. Game tones are tones that sound while you are playing one of the phone's games. You can turn warning and game tones on or off.

### Turning warning and game tones on or off

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

*(For details on how to work the Menu, see page 13.)*

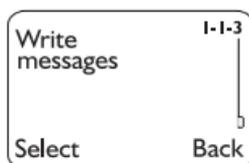
**2) Use ▼ to highlight the profile you want to set the warning tones for, and press Options**

**3) Highlight Customize and press OK. Press ▼ to Warning tones, then press Select.**

**4) Use ▼ to highlight On or Off and press OK**

## Write messages

You can write text messages (see *"Text messages" on page 78*) then send them. It is a good idea to save your written messages in the Outbox in case there is a message delivery problem (see *"Outbox" on page 60*).



## Writing a message

- 1) Press **Menu 1 1 3 (Messages - Text messages - Write messages)**

*(For details on how to work the Menu, see page 13)*

- 2) Enter a message of up to 160 characters. The number of available characters is shown in the top right corner of the display. *For details on entering letters, see “Entering letters” on page 42.*

*Note: You can exit the message any time (by pressing **END**) and return to it later by pressing **Menu 1 1 3 (Messages - Text messages - Write messages)**. However, if you turn off the phone without saving the message, it will be lost.*

- 3) Once you are finished writing, press **Options**, press ▼ to reach the desired function and press **OK**:

**Send** sends the message. Enter or recall the recipient's phone number (or enter e-mail address, if applicable) and press **OK**.

**Send special** allows you to send a message using an alternate message setting (see “Message settings” on page 55). You choose a setting to use, then specify whether you want to enter a phone number (**Numeric**) or a routing address (**Text/numbers**). The phone will prompt you for the number or routing address.

*Note: If you choose to send the message by e-mail, the phone prompts you for the e-mail address and number if you choose **Numeric** or the e-mail address and routing address if you choose **Text/numbers**.*

A routing address may be required when sending messages via fax, page, or e-mail. For help using this feature, contact your service provider.

**Save** stores the message in the Outbox.

**Clear screen** deletes all characters from the message.

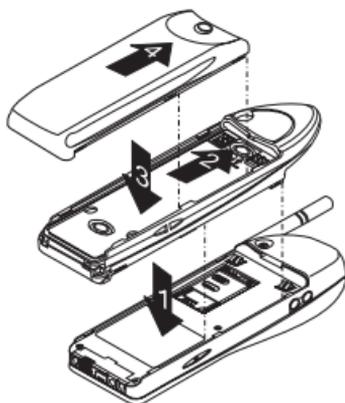
You can check whether messages have been delivered to the text message center by using the Delivery Reports feature (see “Specifying settings for all messages” on page 56).

## 6. Optional Analog Module

With an optional Nokia PLUS analog module and a dual-mode SIM card, you can use your phone in analog networks. See your dealer for details on how to purchase this accessory and activate your subscription.

### Attaching the analog module

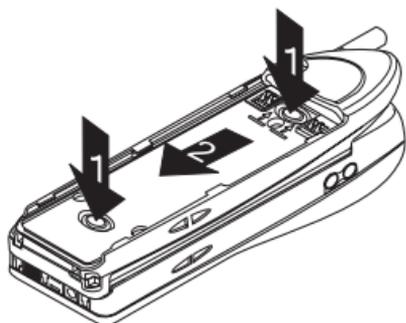
First remove the battery. See *“Removing the battery”* on page 9.



- 1)** Place the analog module on the back of the phone
- 2)** Slide the module toward the top of the phone until it clicks into place
- 3)** Place the battery on top of the analog module
- 4)** Slide the battery toward the top of the phone until it clicks into place

### Removing the analog module

First remove the battery. See *“Removing the battery”* on page 9.



- 1)** Press the buttons at the top and bottom of the analog module
- 2)** Slide the module down and away from the top of the phone

## Analog features

In order for you to use the analog module, your service provider will have to add certain information to your SIM card. See your service provider for details.

Once you have installed the upgraded SIM card and attached the analog module, your phone gives you access to analog network features. Note that some features described in this manual will not be available due to the difference between digital and analog networks.

While in analog mode, the phone displays the **A+** icon in the top left corner and the word **Analog** in the top center of the display.

## Analog system selection

In each analog service area there are usually two service providers. The service provider you sign up with, also known as your home system, is of type A or B. Systems that are of the same type as your home system are called “home-type” systems; systems that are of the opposite type as your home system are called “non-home-type” systems.

Your service provider may have programmed a list of preferred systems into your SIM card. Your phone may search for systems in this list when service is not available in your home system.

The analog system selection feature allows you to request the order in which your phone looks for available systems.

*Note: Using **Home only** or **Pref. system** is usually the most economical choice.*

- 1) Press Menu 4 4 2 (Settings - Analog module settings - Analog system selection).**
- 2) Scroll to one of the following choices:**

**Pref. system** If service is not available in your home system, the phone searches for a preferred system (either home type or non-home type), then a home-type system, then a non-home-type system.

**Home type** If service is not available in your home system, the phone searches for a preferred system (home type only), then a home-type system.

**Nonhome type** The phone searches for a preferred system (non-home-type only), then a non-home-type system.

**Home only** The phone uses its home system only (that is, it will not roam).

### 3) Press **Select**.

*Note: In some areas, the wireless system automatically recognizes roaming phones. In other areas, you need to contact the service provider before the system can recognize your phone. The operator needs to know your phone number, your phone's IMEI or your analog module's SN (serial number), and how you plan to pay for your calls. There is normally an additional charge for roaming calls.*

*Your phone's IMEI is located on the back, under the battery. Your analog module's SN is located on the back of the module. Your IMEI/SN can normally be read over the air by roaming wireless service providers when you call them to register your roaming presence on their wireless network.*

## Call timers for analog calls

When you have the analog module attached, your phone automatically keeps track of the amount of time you've spent on analog calls.

### 1) Press **Menu 2 5 (Call log - Call timers)**

*(For details on how to work the Menu, see page 13)*

### 2) Press ▼ to reach **Analog calls duration**

## To set timers back to 0

### 1) Press **Menu 2 5 (Call log - Call timers)**

*(For details on how to work the Menu, see page 13)*

### 2) Press ▼ to reach **Clear analog call timers**, then press **OK**

- 3) Enter the module code, then press **OK** again

### To show the current call timer during calls

See “Showing the current call timer during calls” on page 30.

## Change module code

Your analog module has a module code that is used in the “Module security” feature described on page 88. The module code is initially set to 12345. To change the module code:

- 1) Press **Menu 4 2 7 5 (Settings - Security settings - Access codes - Change module code)**

*(For details on how to work the Menu, see page 13)*

- 2) The phone prompts you for the existing code, the new code, and verification of the new code. At each prompt, enter the information and press **OK**

## Digital/analog selection

You can choose which type of network you want your phone to use: **Analog only**, **Digital only**, or either (**Digit. & analog**). Your phone automatically resets itself to **Digit. & analog** each time you turn it on.

- 1) Press **Menu 4 4 1 (Settings - Analog module settings - Digital/analog selection)**

*For details on how to work the Menu, see page 13.*

- 2) Use ▼ to reach one of the following choices, then press **Select**:

**Digit. & analog** The phone will work in digital or analog networks. The phone chooses the best one for you.

**Digital only** The phone will work in GSM 1900 digital networks only.

**Analog only** The phone will work in analog networks only.

## Module security

If you purchased an optional analog module, you can protect it from unauthorized use by turning on module security. When module security is on, the phone requests the module code when you turn the phone on if (a) you have not changed the module code from the default of 12345, or (b) you have changed it **and** it differs from the security code. (See “Change module code” on page 87 for information about changing the module code.)

- If you enter the correct code, the phone allows you to access analog module functions.
- If you enter an incorrect code, you can't access analog module functions.
- If you choose **Skip**, the phone ignores menu items that pertain to the analog module and acts as if the analog module isn't attached.

### Activating module security

- 1)** Press **Menu 4 2 3** (**Settings - Security settings - Module security**)

*(For details on how to work the Menu, see page 13)*

- 2)** At the **Module code:** prompt, enter the module code and press **OK**
- 3)** Press **▼** to highlight **On** or **Off**. Press **OK**.

## 7. Call Forwarding Codes

The codes described in this section give you greater control over call forwarding features in GSM 1900 networks than do the menu items in your phone. Enter these codes using the keypad on your phone. In place of the letter N in the codes below, substitute the number to which you want to forward calls. After entering the code, press **TALK**. Unless stated otherwise, forwarding affects voice calls only.

**Note: These codes might not work identically in all networks. If you have questions, contact your wireless service provider.**

### Call forwarding types

There are six types of call forwarding. For each type, you can activate call forwarding, request the status (including the number to which calls are being forwarded), and cancel call forwarding.

Forwarding type	Activate	Status	Cancel
When phone off or no coverage	**62*N#	*#62#	##62#
If not answered	**61*N#	*#61#	##61#
If busy	**67*N#	*#67#	##67#
Always, without ringing	**21*N#	*#21#	##21#
When not able to take calls (combines first three types)	**004*N#	*#004#	##004#
All fax, data, and voice calls on all lines, always, without ringing	**002*N#	*#002#	##002#

**Example:** You want to forward calls to 972-555-1111 when the phone is off or there is no coverage.

> Enter **\*\*62\*9725551111#** then press **TALK**.  
You just forgot which phone number you forwarded your calls to.

> Enter **\*#62#** then press **TALK**.

You want to cancel this particular call forward.

> Enter **##62#** then press **TALK**.

## Adding a call type

You can specify whether you want call forwarding to apply only to certain types of calls by adding an asterisk (\*) and two-digit code before the # in the forwarding codes listed in the previous table.

Call type	Code
All call types	10
Voice calls only	11
Data calls only	20
Fax calls only	13
Text messages only	16
All call types except text messages	19

**Example:** You want to forward fax calls only to 972-555-1111 when your line is busy.  
> Enter **\*\*67\*9725551111\*13#** then press **TALK**.

## Forwarding status of different call types

If you have used the same forwarding type for more than one type of call (for example, forward both data calls and fax calls when no answer), when you request a status you can press the scroll keys to see the forwarding status for each call type. Each type is displayed on a separate screen.

## Adding a timeout

You can specify a timeout during which call forwarding is not active (i.e., call forwarding does not take effect until this number of seconds has passed after the phone receives the call attempt). To do this, add an asterisk (\*) and the time period in seconds to the codes listed above.

**Example:** You want to forward fax calls to 972-555-1111 when your line is busy, but let 25 seconds pass first.  
> Enter **\*\*67\*9725551111\*13\*25#** then press **TALK**.

## 8. Accessories

An extensive range of accessories is available for your phone. You can select the accessories that best suit your specific communication needs.

For availability, please check with your local dealer.

A few practical rules for accessory operation:

- Keep the accessories out of small children's reach.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Installation of complex car equipment must be completed by qualified personnel only.

### WARNING!

Use only batteries, chargers and accessories approved by the phone manufacturer for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.



### Batteries

Several batteries are available for your phone:

- BPS-1 Ultra Slim Li-Polymer 600 mAh
- BLS-2N Extended Li-Ion 900 mAh
- BMS-2S Extended NiMH 900 mAh
- BMS-2V Extended NiMH 900 mAh
- BLS-4 Ultra Extended Li-Ion 1500 mAh

## Charging Times

The table below displays approximate battery charging times. These charging times will charge your phone to about 80% of its capacity, and the battery strength indicator will stop scrolling. If you wish to obtain 100% battery capacity, please allow another two hours for “maintenance” charge.

Battery	Standard Travel Charger ACP-7U	Rapid Travel Charger ACP-9U	Rapid Cig. Lighter Charger LCH-9
BPS-1 Ultra Slim Li-Polymer 600 mAh	2 hrs. 30 min.	1 hr. 20 min.	
BLS-2N Extended Li-Ion 900 mAh	4 hrs.	2 hrs.	
BMS-2S Extended NiMH 900 mAh		1 hr. 30 min.	
BMS-2V Extended NiMH Vibra 900 mAh			
BLS-4 Ultra Extended Li-Ion 1500 mAh	5 hrs.	3 hrs. 30 min.	

## Talk and Standby Times

The table below displays approximate talk and standby times. Variations will occur depending on SIM card, network settings, and usage.

Battery	Talk Time		Standby Time	
	Digital	Analog	Digital	Analog
BPS-1 Ultra Slim Li-Polymer 600 mAh	2 to 3 hrs. 20 min.	1 to 2 hrs.	40 to 150 hrs.	10 to 17 hrs.
BLS-2N Extended Li-Ion 900 mAh	3 to 5 hrs.	1 hr. 30 min. to 3 hrs.	60 to 225 hrs.	16 to 26 hrs.
BMS-2S Extended NiMH 900 mAh				
BMS-2V Extended NiMH Vibra 900 mAh				
BLS-4 Ultra Extended Li-Ion 1500 mAh	5 to 8 hrs.	2 hrs. 45 min. to 5 hrs.	100 to 375 hrs.	26 to 44 hrs.

## Chargers and other accessories

### **WARNING!**

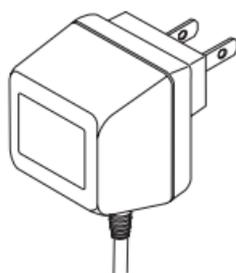
This apparatus is intended for use when supplied with power from the Standard Travel Charger (ACP-7U), Rapid Travel Charger (ACP-9U), or Rapid Cigarette Lighter Charger (LCH-9). Other usage will invalidate any approval given to this apparatus and may be dangerous.

The following chargers and other accessories are available for your phone; please see your dealer for details. Also, refer to any accessory options manual that may have been included in your sales package for the entire line of Nokia Original Accessories.

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

### **ACP-7U Standard Travel Charger**

Use this durable and economical charger to charge all battery options. Plug the charger into a wall outlet and connect the connector to the bottom of your phone. Check the charging status on the phone display (See "Charging Times" on page 92.)



Calls can be made during charging, but charging will stop for the duration of the call.

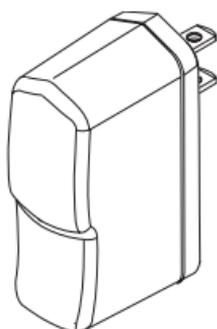
*Note: If the battery is completely empty, you cannot use the phone until it has enough charge to operate.*

The Standard Travel Charger is available for different voltage levels and can also be used with the DCH-9 Compact Desktop Charging Stand.

## **ACP-9U Rapid Travel Charger**

The extremely light, functionally designed Rapid Travel Charger charges your phone battery quickly. (See *“Charging Times”* on page 92.)

Plug the charger into a wall outlet and connect the connector to the bottom of your phone. Check the charging status on the phone display. You can use your phone while charging.



Operating within a voltage range of 100V-240V AC (50Hz-60Hz), the Rapid Travel Charger is practically voltage-independent in normal office and household use. Like the Standard Travel Charger, the Rapid Travel Charger is compatible with all battery options. The Rapid Travel Charger can also be used with the DCH-9 Compact Desktop Charging Stand.

## **LCH-9 Rapid Cigarette Lighter Charger**

The multivoltage Rapid Cigarette Lighter Charger allows you to charge your phone when you travel. The small charger's functional design fits well with most car lighters and interiors.



Charging Times are the same as for the Rapid Travel Charger ACP-9U (see *“Charging Times”* on page 92). Calls can be made during the charging.

A green light indicates that the Rapid Cigarette Lighter Charger is ready to charge. Check the charging status on the phone display. The input voltage is 12 or 24 V DC, negative grounding.

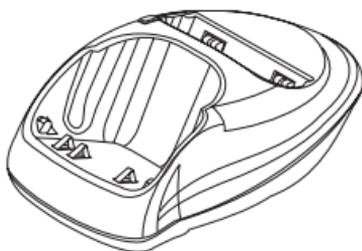
The Rapid Cigarette Lighter Charger can be used with all accessories available for your phone.

Avoid prolonged charging with the Rapid Cigarette Lighter Charger when the car engine is not running. This may cause the battery of your car to drain.

*Note: In some cars the cigarette lighter plug is not provided with power when the ignition is switched off. Verify that the green LED light is lit.*

### **DCH-9 Compact Desktop Charging Stand**

Compatible with all battery options, the Compact Desktop Charging Stand can be used with the Standard Travel Charger ACP-7U or the Rapid Travel



Charger ACP-9U. The Compact Desktop Charging Stand provides mounting for both the phone and a spare battery. Plug the charger into a wall outlet and connect the connector to the back of the Compact Desktop Charging Stand. Place your phone and/or a spare battery in the stand to begin battery charging.

When the phone is charging, no lights are displayed on the stand; check the charging status of the phone battery on the phone display.

*Note: If you have attached an optional analog module, be sure to remove it and replace the battery before placing the phone in the charging stand. Although the phone will fit in the stand with the analog module attached, charging will not take place.*

Charging moves to the rear slot once the front battery is 100% charged.

When the spare battery is charging, check the status indicator on the left side of the charging stand. A red light indicates that the battery is charging; a green light indicates that the battery is charged to at least 80% of its capacity.

<b>DCH-9 Rear Slot Charging Times</b>				
<b>Battery option</b>	<b>Using ACP-7U</b>		<b>Using ACP-9U</b>	
	<b>Front slot empty</b>	<b>Front slot full</b>	<b>Front slot empty</b>	<b>Front slot full</b>
BPS-1 Ultra Slim Li-Polymer 600 mAh	4hrs. 30 min.	6 hrs. 30 min.	3 hrs.	4 hrs. 30 min.
BLS-2N Extended Li-Ion 900 mAh	6 hrs. 30 min.	8 hrs. 30 min.	4 hrs. 30 min.	5 hrs. 30 min.
BMS-2S Extended NiMH 900 mAh				
BMS-2V Extended NiMH Vibra 900 mAh				
BLS-4 Ultra Extended Li-Ion 1500 mAh	12 hrs.	15 hrs. 45 min.	8 hrs.	10 hrs. 30 min.

The phone has the built-in intelligence to maintain the battery, so there is no need for a discharge feature on the stand.

# 9. Reference Information

## Important Safety Information

### Traffic Safety

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

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

Remember, road safety always comes first!

### Operating Environment

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

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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

### Electronic Devices

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

### Pacemakers

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

Persons with pacemakers:

- Should always keep the phone more than 6 inches (20 cm) from their pacemaker when the phone is switched on;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- *If you have any reason to suspect that interference is taking place, switch off your phone immediately.*

## **Hearing Aids**

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

## **Other Medical Devices**

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

## **Vehicles**

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (e.g. 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.

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

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

## **Vehicles**

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

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

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

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

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 the suspension or denial of telephone services to the offender, or legal action, or both.

## **Emergency Calls**

### **IMPORTANT!**

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions which cannot guarantee connection in all conditions. Therefore, you should never rely solely upon any wireless phone for essential communications (e.g. 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 service providers.

## **Making an Emergency Call**

- 1)** If the phone is not on, switch it on. Some networks may require that a valid SIM card is properly inserted in the phone.
- 2)** Press the **END** key to ready the phone for calls. (Press it twice if there are still digits on the display.)
- 3)** Key in the emergency number for your present location (e.g. 911 or other official emergency number). Emergency numbers vary by location.
- 4)** Press **TALK**.

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

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

## **Important Battery Information**

- Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles!
- The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer.
- When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its life. If left unused a fully charged battery will discharge itself over time.
- (NiMH batteries only) For good operation times, discharge the battery from time to time by leaving your phone switched on until it turns itself off (or by using the battery

discharge facility of any approved accessory available for your phone). Do not attempt to discharge the battery by any other means.

- Temperature extremes will affect the ability of your battery to charge: allow it to cool down or warm up first.
- Use the battery only for its intended purpose.
- Never use any charger or battery which is damaged or worn out.
- Do not short circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip, or pen) causes direct connection of the + and - terminals of the battery (metal strips on the back of the battery), for example when you carry a spare battery in your pocket or purse. Short circuiting the terminals may damage the battery or the connecting object.
- Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 59° F and 77° F (15° C and 25° C). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. NiMH batteries' performance is particularly limited in temperatures below 14° F (-10° C). Li-Ion batteries' performance is particularly limited in temperatures below 32° F (0° C).
- Do not dispose of batteries in a fire!
- Dispose of used batteries in accordance with any local regulations.

## **Radio Frequency (RF) Signals**

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992)\*, NCRP Report 86 (1986)\*, ICNIRP (1996)\*.

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

\*American National Standards Institute, National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection.

## Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and allow you to enjoy this product for many years. When using your phone, battery, charger, OR any accessory:

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

## 10. Technical Information

Weight:	4.8 oz. with BLS-2N battery
Transmitting power:	1 W nominal
Operating voltage:	3.6V dc 12V dc for car kit
Frequency band:	1850.2 to 1909.8 MHz (TX) 1930.2 to 1989.8 MHz (RX)
Number of channels:	512 to 810
Memory locations:	Up to 250. Actual number is dependent on SIM card capacity. Please check with your SIM card provider or carrier.
Memory capacity:	Depends on SIM card. Please check with your SIM card provider or carrier.

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The information contained in this User Guide was written for Nokia phone NSB-3NX.

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## **NOKIA One-Year Limited Warranty**

Nokia Mobile Phones, Inc. ("NMP") 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.
2. The limited warranty extends to the original purchaser of the Product ("Consumer") 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.
4. During the limited warranty period, NMP will repair, or replace, at NMP's option, any defective parts, or any parts that will not properly operate for their intended use with new or factory rebuilt 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. NMP will also pay for the labor charges incurred by NMP 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. NMP'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. NMP 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 NMP, 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 NMP in Melbourne, Florida. NMP 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 subject 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 NMP, 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, or damage caused by the connection to other products not recommended for interconnection by NMP.

c) NMP was not advised by the Consumer in writing of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

d) The Product serial number plate or the accessory data code has been removed, defaced or altered.

e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna.

8. 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 Mobile Phones, 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) NMP will repair or authorize the repair of the Product under the limited warranty within 30 days after receipt of the Product by NMP or an NMP authorized service center. If NMP cannot perform repair covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, NMP at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage.

f) If the Product is returned to NMP 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 to NMP after the expiration of the limited warranty period, NMP's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

9. The Product consists of newly assembled equipment that may contain used components that have been reprocessed to allow machine compliance 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. NMP SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, 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 NMP KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NMP 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 above 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. NMP 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 NMP and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, and all communications 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 NMP. The allocation is recognized by the Consumer and is reflected in the purchase price of the Product.

15. Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following delivery of the Product.

16. Questions concerning this limited warranty may be directed to:

Customer Service, USA  
Nokia Mobile Phones  
7725 Woodland Center Boulevard, Suite #150  
Tampa, FL 33614  
Telephone: 1-888-NOKIA2U (1-888-665-4228)  
Facsimile: (813) 249-9619  
TTY Users: 1-800-24NOKIA (1-800-246-6542)

17. The limited warranty period for NMP supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

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Para obtener un manual del usuario en español favor de llamar o enviar un fax al teléfono 1-888-NOKIA2U (1-888-665-4228), fax 813-249-9619.

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