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Nokia 7160
Owner's Manual
version 0.02

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Graphics needed:

Bottom of phone
END key/TALK key
Selection keys
Back of phone
Phone label (ESN, model number, etc.)

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File	Contents
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1. Welcome

2. Quick & Easy

Congratulations for choosing this Nokia phone! These pages include some basic tips for quick and easy use of the phone. For more detailed information, read through the user's guide.

Before using the phone

1 Install and charge the battery. See page 10 for details.

2 Switch on your phone by pressing and holding ⏻. See page 10 for details.

Making calls

Making a call	Open the slide, enter the area code and phone number & press TALK.
Answering a call	Open the slide. If the slide is open, press TALK.
Adjusting the earpiece volume	Roll up or down with Roller during a call.
Ending/ rejecting a call	Press END or close the slide.
Last number redial	Press TALK (in standby mode) to access the list of last dialled numbers. Roll with Roller to desired number and press TALK.
Calling your voice mailbox	Press & hold 1. If the phone prompts for the voice mailbox number, key it in & press **OK**.

Using the Phone Book

Quick save	Enter the phone number & double-press **Options**. Enter the name & press **OK**.

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Quick find	Press Roller once (in standby mode), then roll with Roller to the desired name.
Using phone book during a call	Press **options** during a call, then roll to `Names list` and press Roller.

Rolling the Menu

Entering a menu	Press **Menu**, roll with Roller to the desired menu function and press Roller.
Exiting a menu & global exit	Press END to exit a menu function without changing its settings & to restore the standby mode. Tip: Pressing END or closing the slide exits any function.

Essential Shortcuts

Locking the keypad/	Close the slide & press **Lock Keys** within 3 seconds.
Unlocking the keypad	Open the slide.
Turning ringing tones off	Press ⓘ once, roll with Roller to `Silent` and press Roller.
Changing ringing tones	Press ⓘ once, roll with Roller to the desired profile (for example, `Normal`) & press Roller. Then roll to `Customize` & press **OK**. Then roll to `Ringing tone` & press Roller, roll to the desired ringing tone & press **OK**.
Writing & sending a text message	Press **Menu** first, then press **Compose**. Enter your message, press **Options**, choose `Send` & press **OK**. Enter the phone number & press **OK**. See page 46 for details.

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3. For Your Safety

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

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.

Connecting To Other Devices

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

Remember to make backup copies of all important data.

Making Calls

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

Emergency Calls

Ensure the phone is switched on and in service. If the word "Clear" appears on the display above the <right selection> key, press and hold Clear to clear the display. Enter the emergency number, then press TALK. Give your location. Do not end the call until told to do so.

Infrared Precautions

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

About the labels on your phone

Your phone has labels on it. These are important for service and related purposes, so be careful no to lose the label or the information it contains.

FCC/Industry Canada Notice

Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility.

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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 TDMA and AMPS networks.

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 these service(s) from your home service provider and obtain instructions for their use.

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

4. Getting started

Before you can use your phone, you first need to charge the phone battery.

Charging the battery

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

2 Connect the charger to an AC wall outlet. The battery indicator bar starts to scroll.

Note: If the battery is totally empty, it may take a few minutes before the charging indication appears on the display.

Tip: The phone can be used while charging if the phone is switched on.

3 The battery is fully charged when the battery indicator bar stops scrolling, and the `Battery full` text is briefly displayed if the phone is switched on.

Charging time depends on the charger and battery used. For example, the charging time for the BLS-2S battery with the ACP-7 charger takes about 2 hours.

4 Disconnect the charger from the AC outlet and the phone.

For more information on using batteries, see the “Battery Information” chapter.

Switching the phone on & off

1 Press & hold ⏻ for more than a second.

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If the phone asks for a PIN code:

- Enter the PIN code, which is displayed as asterisks, and press Roller.

If the phone asks for a security code:

- Enter the security code, which is displayed as asterisks, and press Roller.

For more information, see “Access Codes” in Security Features chapter.

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

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.

5. About Your Phone

Using the keys

⏻	**Power key:** Press and hold the key to switch the phone on or off. **Tip:** Press the key briefly (with clear display) to enter the list of adjustable Profiles. See page 29 for details.
(graphic)	**Selection keys:** Press to perform the function indicated by the text on the display above the key. See page 13.
(graphic)	**Roller:** Roll to roll through names, phone numbers, menus or setting lists. **Press once** to select the highlighted item. **Roll during a call** to adjust the earpiece volume. See page 13.
TALK	**Send key:** Press to make a call to name/number shown on the display or to answer a call. **Tip:** Press once to enter the list of last dialled number
END	**End key** Press to end or reject a call. **Tip:** Press once to exit a function & to restore the standby mode.
0 to 9	**Number keys:** Used of entering numbers and letters. **Tip:** Press and hold 1 to call your voice mailbox.
* + #	**Special character keys:** * + is used for entering special characters. # is used to perform some special functions. **For example:** Pressing # while you are in alpha mode changes the letter case.
(graphic)	**Slide ejection key:** Press to open the sliding cover.

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Using the selection keys

Below the display you can find two selection keys. Their functions depend on the guiding texts shown above the keys.

For example, when there is the text **Menu** above the <left selection> key, pressing this key enters the menu functions.

Picture of display and selection keys

Similarly, pressing the <right selection> key under text **Names** allows you access to the phone book functions.

In this user guide, the selection keys are indicated by the relevant guiding text appearing in bold (for example, **Menu** or **Names**).

Using the roller

The Roller functions both as a scroll key and as a selection key:

Picture of Roller

Roll to scroll through names and numbers stored in phone book or through phone's menus, submenus and option lists.

Press once to select the highlighted function or setting, or to show details of the highlighted name or number (in phone book).

Press and hold to make a call to the displayed or highlighted name or number when the sliding cover of your phone is closed.

Tip: When the left selection key text is **Select**, pressing Roller instead of the left selection key performs the same function.

Tip: Press Roller once (in standby mode) to access the Roller Menu. For information about customizing the Roller Menu, see page 32.

Using the sliding cover

The pop-out sliding cover protects the number keys of your phone and can be used to answer, end or reject a call. (See page 22 for details.)

To open the sliding cover, press the slide ejection key at the upper back side of the phone or manually slide the cover down.

picture

To close the slide, slide the cover up until it locks into place.

Tip: (1) If you have locked the keypad of your phone, the keypad is always unlocked when you open the sliding cover. (2) Closing the sliding cover always exits the menu and phone book functions and restores the clear display.

About display indicators & icons

Display indicators and icons inform you about the operation of your phone. Most essential indicators and icons related to various phone functions are explained later in this user's guide.

Standby mode

The indicators described below are shown when the phone is ready for use, with no characters entered by the user. This screen is called standby mode or clear display.

picture

`Operator` Indicates in which cellular network the phone is currently used.

(antenna pic.)Shows the signal strength of the cellular and barnetwork at your current location. The higher the bar, the stronger the signal.

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(battery pic.)Shows the battery charge level. The higher the and barbar, the more power in the battery.

About the phone book

The internal phone book can store up to 1000 names with multiple numbers per name (see “Storing multiple numbers per name” on page 37.)

For information about storing names and phone numbers, see “Phone Book Functions” on page 34.

Entering a phone book function:

- Press the right selection key at **Names**., roll with Roller to the desired function (for example, `Add new`) and press Roller.

Entering the list of stored names and numbers:

- Press **Names**., roll with Roller to `Names list` and press Roller.

  Tip: You can also access the `Names list` by pressing Roller (in standby mode), if the Roller Menu shortcut is set to access it. See page 64 for details.

About the menu

The phone offers you an extensive range of functions which allows you to tailor the phone to your needs. These functions are grouped in menus and submenus.

The menus and submenus can be accessed by rolling the Roller or using the appropriate shortcut number. (See page 16.)

Accessing a menu function by rolling the roller

1 Press **Menu** to access the menu facility.

2 Roll with Roller to the desired main menu, for example `Settings`, and press Roller to enter the displayed menu.

3 If the menu contains submenus, roll with Roller to the desired submenu and press Roller to enter the submenu (for example, `Call Settings`).

If the menu contains submenus (for example, `Anykey answer`), repeat step 3.

4 Roll with Roller to the desired setting option.

5 Press Roller to select the highlighted setting.

Tip: You can return to the previous menu level by pressing **`Back`**, or exit the menu without changing any settings by pressing **`Exit`**. You can also exit the menu by pressing and holding Back, for example when the slide is closed.

Tip: You can always exit the menu by pressing END without changing the menu settings. Pressing END restores the standby mode.

Header line

The header line on top of the display helps you to locate where you are in the menu or phone book.

Help texts

Most of the menu functions are provided with a brief help text. To view the help text of a menu function, roll to the desired menu function and wait for 10 seconds.

Accessing a menu function by its shortcut

Most menu items (menus, submenus and setting options) are numbered and can be accessed by their shortcut number. The shortcut number is shown in the top right corner of the display. For menu shortcut numbers see “List of menu functions” on page 17.

1 Press **`Menu`**.

2 Within 3 seconds, enter the first number of the menu function you want to access. Repeat until you have entered all of the numbers.

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For example: To set the menu function `1-touch dialing` to on, press **Menu** 4 (for `Settings`) 2 (for `Call settings`) 1 (for `Anykey answer`) 1 (for selecting `On`).

List of menu functions

1 Messages
- 1 Inbox
- 2 Outbox
- 3 Archive
- 4 Voice messages
  - 1 Listen to voice messages
  - 2 Voice mailbox number

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

3 Profiles
- 1 Normal
  - 1 Activate
  - 2 Customize
    - 1 Ringing options
    - 2 Ringing tone
    - 3 Ringing volume
    - 4 Vibrating alert
    - 5 Message alert tone
    - 6 Keypad tones
    - 7 Warning and game tones
    - 8 Vibrating alert
- 2 Silent
  - 1 Activate
  - 2 Customize (same submenus as Normal)
  - 3 Rename
- 3 Meeting (same submenus as Silent)
- 4 Outdoor (same submenus as Silent)
- 5 Pager (same submenus as Silent)
- 6 Car
  - 1 Activate
  - 2 Customize (same submenus as Normal plus Automatic Answer and Lights)
- 7 Headset
  - 1 Activate
  - 2 Customize (same submenus as Normal plus Automatic Answer)

4 Settings
- 1 Time settings
  - 1 Alarm clock
  - 2 Clock

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2 Call settings
  1 Anykey answer
  2 Automatic redial
  3 Emergency key 9
  4 Calling card
3 Phone settings
  1 Language
  2 Roller function
  3 Touch tones
  4 Animation
  5 Welcome note
4 Security settings
  1 Restrict calls
  2 Change access codes
5 Network services
  1 Voice privacy
  2 Call forwarding
  3 Call waiting
  4 Send own number
  5 Network feature setting
  6 NAM selection
6 Restore factory settings

5 System
  1 Automatic
  2 Manual
  3 New search

6 Games
  1 Memory
  2 Snake
  3 Logic

4 Dice

7 Calculator

8 Calendar

9 To-Do

10 Browser

11 Infrared

12 Keyguard

Phone book menu

(Press **Names**)

Find
Add new
Erase
  One by one
  Erase all
Options
  Scrolling view
  Memory status
1-touch dialing
Caller groups
  Rename group
  Group ringing tone
  Group graphic

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6. Call Functions

Making & answering calls

Making a call

1 Open the sliding cover.

2 Enter the phone number including the area code and press TALK (or press and hold down the Roller).

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

3 Press END to end the call (or to cancel the call attempt). You can also end the call by closing the sliding cover.

Tip: To make an international call, enter the international prefix (by pressing * twice) and the country code before entering the area code and phone number.

Answering a call

1 Open the sliding cover to answer an incoming call. If the sliding cover is already open, press TALK to answer the call.

2 Press END or close the sliding cover to end the call.

Tip: You can reject an incoming call by pressing END or by closing the sliding cover. If you have activated `Forward when busy`, the rejected call will be forwarded.

Answering, ending and rejecting a call by using the sliding cover

- To answer an incoming call, open the sliding cover.
- To reject an incoming call, close the sliding cover.
- To end a call, close the sliding cover.

Adjusting the earpiece volume

You can adjust the earpiece volume of the phone by rolling with the Roller during a call. Roll upwards to increase and downwards to decrease the earpiece volume.

picture

Last number redial

The last ten phone numbers you called or attempted to call are stored in the phone's memory. To redial one of these last dialled numbers:

1 With display clear, press TALK once to access the list of the last-dialed numbers.

2 Scroll with Roller to the desired name/number.

3 Press TALK to dial the displayed name/number.

Also see "Call log (Menu 2)" on page 25.

Calling your voice mailbox

1 Press and hold END (with clear display).

2 If the phone asks for the voice mailbox number, enter it and press Roller.

picture

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Voice mail is a network service. For more information and for the voicemail box number, contact your service provider.

Tip: When ⌧ is displayed, just press **Listen** to call your voice mailbox number.

Calling card calls

Before you can make a call using a calling card, you have to enter your calling card information into the phone. See 'Calling card (Menu 4-2-4)' on page 62.

To make a call using a calling card:

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 displays **Wait for tone, then press OK**. Wait for the tone, then press **OK**.

4 Your phone displays **Wait for tone, press OK again**. Wait for the tone again, then press **OK**.

In-call functions

Your phone provides a number of functions (in-call options) which you can use during a call. You cannot utilize all of these functions at all times. Many of the in-call options are network services.

By pressing **Options** during a call some or all of the following in-call options may be available: Mute or Unmute (to mute or unmute a call), New Call (to make a call when you have a call in progress), Touch tones (to send touch tones stored in phone book), Phone Book (to access the phone book), Menu (to access the Menu).

Call waiting

This network service allows you to answer an incoming call while you have a call in progress if you have activated the menu function `Call Waiting` (Menu 4-5-3).

1 Press **`Answer`** or TALK. The first call is put on hold.

To reject the call, just ignore the call. Or, first press **`Options`**, scroll to `Reject` and then press **`OK`**. If you have activated `Forward when busy`, the rejected call will be forwarded.

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

2 To end the active call, press END (or to end both calls at the same time, press **`Options`**, scroll to `End all calls` and press **`OK`**.)

Call hold

This network service allows you to make another call while you have a call in progress.

1 Press Hold. The first call is put on hold.

2 Make the second call.

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

4 To end the calls, press END.

Tip: You can also mute the line for a while. Press s **`Options`**, roll with Roller to `Mute`. When you want to resume the muted call, press **`Unmute`**.

Making a conference call

This network service allows up to six persons take part in a conference call.

1 Make a call to the first participant.

2 Press **`Options`** and roll to `New Call` and press Roller. Make the call to the second participant. The first call is put an hold.

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3 To join the first participant in the conference call, press **Options**, choose Conference and press Roller.

4 To add a new person to the call, repeat the steps 2 and 3.

5 To have a private conversation with one of the participants:

- Press **Options**, roll to Private and press Roller.
- Roll to the desired participant and press **OK**.
- Once you have finished the private conversation, return to the conference call as described in step 3.

6 To end the conference call, press END.

Transferring a call

When you have one call active and one on hold, this network service allows you to connect these two calls and disconnect yourself from the call.

Call log (Menu 2)

Within this menu you can view and delete phone numbers registered by the phone, and view the approximate length and cost of your calls (network service).

In the options of the missed calls, dialled numbers or received calls menus you can view the date and time of the call, view, edit or erase the number from the list or save the number in the phone book.

Note that the phone registers missed and received calls only if the network supports the Calling Line Identification function, the phone is switched on and is within the network's service area.

Missed calls (Menu 2-1)

Within this submenu you can view the ten phone numbers from which somebody has most recently tried to call you with no success.

Tip: When a note of missed calls is displayed, press **List**.

Received calls (Menu 2-2)

Within this submenu you can view the ten phone numbers from which you have most recently accepted calls (network service).

Dialed calls (Menu 2-3)

Within this submenu you can view the ten phone numbers that you have most recently called or attempted to call.

Tip: To quickly access the list of last dialled numbers, press TALK once (with clear display).

Clear call lists (Menu 2-4)

This menu function allows you to erase all the phone numbers listed in the Missed Calls, Received Calls and Dialed calls submenus. Note that you cannot undo the operation.

Call timers (Menu 2-5)

Within this submenu, you can view the duration of your incoming and outgoing calls in hours, minutes and seconds. You can also clear the call timers. To clear the timers, you need the security code.

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

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Call forwarding

This network service allows you to forward your incoming calls to another number, for example to your voice mailbox. For details, contact your service provider.

You can select one of the following forwarding modes:

- `Forward all calls` (Menu 4-5-2-1)
  All voice calls are forwarded and no ringing tone is played at an incoming call.
- `Forward when busy` (Menu 4-5-2-2)
  Voice calls are forwarded when your number is busy.

  Tip: If `Forward when busy` is activated, rejecting an incoming call will also forward the call.
- `Forward when not answered` (Menu 4-5-2-3)
  Voice calls are forwarded when you don't answer a call within the preset timeout.
- `Forward when phone off or no coverage` (Menu 4-5-2-4) Voice calls are forwarded when your phone is switched off or outside of the network service area.

For each of the above modes you can select `Activate` (turns forwarding on if allowed by the network), `Cancel` (turns forwarding off) or `Status` (shows the call types affected by the forwarding mode).

Within the submenu `Cancel all call forwarding` (Menu 4-5-2-5), you can cancel all call forwarding.

System selection (Menu 5)

Your phone is capable of working in residential, private, and public systems. You can choose how your phone selects a network to use.

This feature is Menu 5 in your phone. The default is Automatic, which means your phone automatically searches for networks available to you and chooses the appropriate one. Every time you switch on your phone, Automatic is selected.

If you choose Manual, your phone displays a list of available and unavailable networks. (You can't use unavailable networks.) Scroll through the choices and press OK when you reach the one you want.

If you choose New Search, your phone begins a new search for new private and residential systems. When it finds the best new system, it displays it. You can then select it or start another search by pressing Next.

Note: The Manual and New search features can be used only when your primary phone number (NAM1) is selected. See page 68.

To switch from private to public

If you are in a private system and want access to a public system, press and hold Menu when you are not in a call. Your phone will display Search public systems? Press OK and your phone will use the public system for the next outgoing call. After the call it will revert to Automatic system selection.

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7. Customizing Your Phone

Profiles (Menu 3)

Within the Profiles menu, you can adjust and customize the alert of your phone for different events, environments and caller groups.

How to select a profile

If you want to change the currently selected profile (Normal is the default), quickly press the ⓘ key. Then roll with Roller to the profile you want to activate and press Roller. Choose `Activate`, then press **OK**.

To access the list of profiles through the menu, press **Menu**, then scroll to `Profiles` and press Roller.

Tip: If you don't want your phone to ring at an incoming call, select the `Silent` profile.

How to customize a profile

1 Press ⓘ once.

2 Scroll to one of the following profiles and press **Options**: `Normal` (default), `Silent`, `Outdoor`, `Meeting`, `Pager`, `Car`[1], `Headset`[2].

1. This profile is shown only after the phone has been used with a car kit.
2. This profile is shown only after the phone has been used with a headset.

3 Select `Customize` and press **OK**.

Note: When the phone is connected to the headset (HDC-9), this option is not available.

graphic

4 Roll to the setting you want to customize (for example, `Ringing tone`) and press Roller.

graphic

5 Roll to the desired option and press **OK**.

Settings you can customize

Incoming call alert

Defines how the phone notifies you of an incoming voice call. The options are: `Ringing`, `Ascending`, `Ring once`, `Beep once`, `Caller groups` and `Silent`.

Note:

- If `Incoming call alert` is set to `Silent`, no ringing tone, message alert tone, keypad tones, warning tones, or game tones will be heard.
- When `Caller Groups` is selected, the phone rings only upon calls from phone numbers which belong to a selected caller group. (Also a graphic is shown, if you've selected one for that group.) See "Caller groups" on page 42.

Ringing tone

Sets the ringing tone for voice calls.

Note: You may be able to download a new ringing tone via the text message (SMS) service or via your phone's IR port. For more information, contact your service provider.

Ringing volume

Sets the volume level for ringing and message alert tones.

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Vibrating alert

Sets the phone to vibrate at an incoming voice call. The vibrating alert does not work when the phone is connected to a charger or desktop stand.

Message alert tone

Sets the ringing tone type for text messages.

Keypad tones

Sets the volume level for keypad tones or turns the keypad tones off.

Warning and game tones

Turns warning and game tones on or off. For example, when turned on, the phone sounds a warning tone when the battery is running out of power.

Automatic answer (in Car and Headset profiles only)

Sets the phone to answer an incoming voice call after one ring.

Note: This function can only be used when your phone is connected to a headset or to a car kit equipped with the ignition sense option, with the ignition on.

Lights (in Car profile only)

Turns the display and keypad lights on or off.

Renaming profiles

You can rename the profile names to your liking except for the names of the Normal, Car and Headset profiles.

1 Press **Menu**, scroll with Roller to `Profiles` and press Roller.

2 Roll to the profile you want to rename and press **`Options`**.

3 Roll to `Rename` and press **OK**.

4 Enter the new name and press **OK**. For information about entering letters, see page 35.

Setting display language

Within the Language menu (4-3-1) you can select the language for your phone's display.

Language setting also affects the time and date formats of the following functions: Alarm clock (Menu 4-1-1), Clock (Menu 4-1-2) and Calendar (Menu 8).

Displaying the clock

The phone is provided with a clock. Within the Clock menu (4-1-2) you can set the phone to show the clock in the top right of the display, set the time, and choose whether the clock uses a 12-hour or 24-hour format.

Welcome note

Within the Welcome note menu (4-3-5), you can write a message of up to 36 characters that is briefly displayed every time the phone is switched on.

Viewing current call timer

You can set the phone to display the duration of the current call. To do this, use Menu 2 5 1, press **Details**, and select On.

Customizing the roller menu

Pressing the Roller with clear display activates the Roller Menu, allowing you quick access to certain phone features. As a default, the Roller Menu allows you access to the list of names and numbers stored in phone book (Names List).

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You can set the Roller menu to access another function that you often use (for example, Profiles or the list of last dialled numbers). This you can do within the `Roller function` submenu (4-3-2); see page 64.

8. Phone Book Functions

Before storing any names and numbers, you may also want to select how the stored names and phone numbers are shown.

Setting the type of view for stored names & numbers

Your phone can show the stored names and phone numbers in two ways:

`Name list` shows four names at a time.

`Name, number` shows one name & phone number at a time.

1 Press **Names**, roll with Roller to `Options` and press Roller.

2 Roll to `Scrolling view` and press Roller.

3 Roll to `Name list` or `Name, number` and press **OK** to select the highlighted option.

Storing names & numbers

Storing a name & phone number (Add entry)

1 Press **Names**.

2 Press **Options** and roll to `Add entry` and press **OK**.

3 Enter the name and press **OK**. See “Entering letters & numbers” below.

4 Enter an area code and phone number, and press **OK**.

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If you enter the + character for the international prefix (by pressing ⊛ twice) in front of the country code, you can also use the phone number when calling from abroad.

Quick Save: With the display clear, enter the phone number and press the left selection key twice. Enter the name and press **OK**.

Entering letters & numbers

You can enter letters and numbers either by using the Roller or number keys (1 to 9).

Using the roller to enter letters & numbers

1 Roll with Roller the character & number list on the far right of the display when in alpha mode (indicated by picture ABC or abc at the top left of the display)

2 Press Roller to insert the highlighted letter or number.

- If you make a mistake, you can remove characters to the left by pressing **Clear** as many times as needed. Pressing and holding **Clear** clears the screen.
- To move the cursor, roll the character & number to one of the arrow symbols (-> or <-) and press Roller to move cursor to the direction of the highlighted arrow symbol.

  You can also move the cursor by first pressing **Options**, then pressing Roller at Move cursor. Roll with Roller to the desired location and press **Done** to move the cursor.

  Tip: Entering numbers using Roller may come in handy, when you want to dial and call a number without opening the sliding cover.

Using number keys to enter letters & numbers

Once in alpha mode, press the key labelled with the character you want: once for the first character, twice for the second and so on.

The available characters, depending on the display language chosen (see “Language (Menu 4-3-1)” on page 63), are:

KEY	CHARACTERS
1	. , ? ! - & 1
2	A B C 2 Ä À Á Â Ç Ã Æ
3	D E F 3 È É Ë Ê
4	G H I 4 Î Ï Ì Í Ð Ý
5	J K L 5 £
6	M N O 6 Ö Ô Ñ Ò Ó Ø
7	P Q R S 7 $ ß
8	T U V 8 Ü Ù Û Ú
9	W X Y Z 9
0	space, 0
(*)	special characters such as + and %
(#)	upper or lower case

- To switch between upper case and lower case, press (#) quickly. ABC or abc at the top of the display indicates the selected case.
- To insert a number, press and hold the key labelled with the desired number. Or, press and hold (#) to switch to number mode (indicated by 123 at the top of the display). To switch back to alpha mode, press and hold (#) again.
- To insert a space, press 0.
- Pressing (*) brings up a list of special characters. Roll with Roller to the desired character and press Roller to select the highlighted character. If the character list continues on the next screen, you can scroll between the screens by pressing (*).

Tip: When entering names in phone book, the phone uses title case, which automatically writes the first character of a name in upper case and the rest of the word in lower case. When writing a text message or other text, the phone uses the text case, which automatically writes the first character of each sentence in upper case.

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Storing multiple numbers per name

The phone's internal phone book allows you to store multiple phone numbers per name, as well as an e-mail address, street address, and text notes. You can store up to 15 numbers per name. The first number stored under a name is automatically set as the default number for the name.

Picture

Tip: When you press and hold Roller at a highlighted name, the phone will make a call to the default number.

To add a new number to a name:

1 Press the right selection key twice to enter the names list.

2 Roll with Roller to the desired name, press **Options**, roll to Add number, and press Roller.

3 Roll to one of the number types and press Roller to select it.

The number types available are: Standard, Fax, Mobile, Office. You can later change the number type by using the Change Type option in the option list.

4 Enter the number and press **OK** to save it.

To change the default number:

1 Once in the names list, roll to the desired name and press Roller.

2 Roll to the number you want to set as the default number, press **Options** and roll to Make Default and press Roller.

To add a text item to a name:

1 Once in the names list, roll to the desired name, press **Options** and roll to Add text and press Roller.

2 Roll to one of the text types and press Roller to select it.

The text types available are: Email, Postal address, Note.

3 Enter the text (for example, an e-mail address) at `Add text:` and press **OK** to save it.

Searching & calling from phone book

Searching for a name & phone number

1 Press **Names**, roll with Roller to `Search` and press Roller.

Picture

2 Enter the first character(s) of the desired name and press **OK**. Then roll with Roller to the desired name and press Roller.

If there is more than one number stored under a name, roll with Roller to the desired number.

3 Press Roller to view the details of the highlighted name.

Quick Find: Press the right selection key twice (in standby mode) to access the `Names list`. Enter the first character(s) of the desired name and roll with Roller to the desired name.

Making a call from the phone book

Making a call from the phone book can come in handy when you want to make a call with the slide closed.

1 Press **Names**, roll to `Search` and press Roller.

2 Enter the first letter(s) of the name and press **OK**. Then roll with Roller to the desired name.

3 Press TALK to call the highlighted name.

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Tip: Pressing and holding Roller at a highlighted name makes a call to the default number, if there is more than one number stored under the name. To make a call to a number other than the default number, roll with Roller to the desired number and press TALK or Roller.

1-touch dialing

Assigning a 1-touch dialing number

The first nine phone numbers stored in phone book are automatically stored as 1-touch dialing numbers and can be dialed using the number keys 1 - 9. If you want to assign another number to one of the number keys, do the following:

1 Press **Names**.

2 Press **Options**, roll to `1-touch dialing` and press Roller.

3 Roll to the desired number key (`Key 1` to `Key 9`), and press **Assign** or **Options**.

(If no phone number is assigned to a key or when the phone has automatically assigned a phone number to a number key, **Assign** is shown. If a phone number is already assigned to key, the phone number (name) and **Options** are shown.)

4 Roll to the desired name and press **OK**. If more than one number is stored under the name, roll the numbers and press **OK** to select the highlighted number.

After assigning a phone number to a number key, you can view the number, change or erase it by pressing **Options**.

Calling using 1-touch dialing

When a phone number is assigned to one of the number keys (1 to 9), you can call the phone number in either of the following ways:

- Press the corresponding number key (1 to 9) and press TALK.
- Press and hold the corresponding number key until the call is started.

Note: Pressing and holding 1 dials your voice mailbox number.

Voice dialing

<this section TBD>

Organizing the phone book

Editing a name & number

1 Once you have recalled the name or number you want to edit, press **Options**.

2 Press Roller at Edit.

3 Edit the name and press **OK** and/or edit the number and press **OK**.

Tip: If you have stored multiple phone numbers per name, you can use the option Edit number to edit one of the numbers, Edit e-mail to edit the e-mail address, or Edit note to edit the textual note (for example, home address) you have stored under a name.

Erasing a name & number

You can remove names and phone numbers from the selected phone book one by one or all at once.

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To erase a name and number

1 Once you have recalled the name and number you want to erase, press **Options**.

2 At the Erase name prompt, press Roller.

Note: If you have stored multiple numbers with a name, the option Erase name deletes the name and all the numbers stored under it.

Tip: If you have stored multiple numbers with name, you can use the option Erase number to delete one of the numbers, Erase e-mail to delete the email address, or Erase note to delete the textual note (for example, home address) you have stored under a name.

To erase all names and numbers

1 Press **Names** (in standby mode).

2 Press **Options**, roll to Erase all? and press **OK**.

3 At the Are you sure? prompt, press **OK**, enter your security code, then press **OK**.

Copying & printing via IR

Copying or printing a name & number from your phone

Using your phone's infrared (IR) port, you can copy names and phone numbers to a compatible phone or PC which is running an appropriate application. You can also print names and phone numbers stored in your phone's phone book via a compatible printer.

1 Recall the name and phone number to be copied.

Make sure that the other phone is set to receive data via its IR port.

2 Once you have recalled the desired name and number from the phone book, press **Options**, roll to Send via IR (to copy the name & number) or Print via IR (to print the name & number) and press Roller.

Copying a name & phone number to your phone

To copy names and phone number from another compatible phone, you need to first set your phone to receive data through its IR port using the Infrared menu (Menu 11).

Then, the user of the other phone sends you a name & number as described above.

Once you have received the name and phone number, press **Show**. Then press **Options**, select `Save` or `Discard`, and press **OK**.

Caller groups

You can set the phone to sound a specific ringing tone and flash a graphic (picture) on the display when you receive a call from a particular name & phone number. To do this, first include the name & number in the desired caller group. Then, select a ringing tone and graphic for this group.

Note: You can set the phone to ring only upon calls from names & numbers that belong to a specific caller group. See “Profiles (Menu 3)” on page 29.

Adding a name & phone number to a caller group

1 Once you have recalled the desired name and number from the phone book, press **Options**.

2 Roll with Roller to `Caller groups`, and press Roller.

3 Roll to the desired caller group, for example `Family`, and press Roller.

Setting a ringing tone & graphic for a caller group

1 Press **Names**.

2 Roll to `Caller groups` and press Roller.

3 Roll to one of the caller groups and press Roller.

4 Roll to one of the following functions and press Roller.

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

`Group ringing tone`
Roll to the desired tone and press **OK**. `Preset` is the tone selected for the currently selected profile.

`Group graphic`
Roll to `On`, `Off`, `View graphic`, `Send via IR`, `Send graphic` (send via SMS), and press **OK**.

5 If you selected `Send graphic` (network service), enter the recipient's phone number or recall it from phone book and press **OK**.

You can also download a new graphic to your phone via the IR port. See "Infrared" on page 70 for information about receiving data via IR. After you have downloaded a graphic, roll to `View graphic` or `Save graphic` and press **OK**. If you selected `Save graphic`, reach the desired caller group and press **OK**.

Memory status

You can check what percentage of the phone's memory is in use and how much memory is still unoccupied.

1 Press **Names**.

2 Press **Options** roll to `Options` and press Roller.

3 Roll to `Memory status` and press Roller.

The phone now displays the status of the phone's memory.

9. Text Messages

Within the Messages menu (Menu 1) you can read, write and send text (SMS) messages to another phone or, for example, to an email address or fax if supported by your network. You may need to subscribe to the text message (SMS) service first.

Note: Before you can send any text messages, you need to store your message center number with the Message center number option under Message settings in the Messages menu. Contact your service provider for the message center number.

Reading text messages

When you have received a text message, the ✉ indicator and the number of new messages followed by Message(s) received will appear on the display.

1 Press **Read** to read the message or press **Exit** to view it later.

To read an unread message later:
Once in the Messages menu, roll to the desired message and press Roller to read it.

To re-read a message:
Once in the Messages menu, press Roller at Inbox. Roll to the desired message and press **Read** (or Roller) to read it.

2 While reading the message, press **Options** to scroll the list of options and press Roller at the highlighted option to select it.

The option list includes options for erasing, replying, forwarding, moving, editing and renaming the message you are reading. You can also copy the message to your phone's calendar as a reminder note (Copy to

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Calendar) or you can send or print it via IR. The Detail option shows you, for example, the sender's name & phone number, message center used for sending, and reception date and time.

For forwarding the message to a distribution list or, for example, to a fax, see "Special sending options" on page 47.

Note:
in front of the header means that the message has not yet been read.
i in front of the header indicates a delivery report.

When blinks there is no more space for new text messages. You can read some of the unread messages when they will be moved to Inbox folder and automatically deleted, or if you have stored messages in the Archive folder or folders you have created, erase some messages from the folders.

Replying to a text message

1 While viewing a message that you want to reply to, press **Options**, roll to Reply and press Roller.

2 Roll to one of the following reply types and press Roller.

Blank (Gives you empty text buffer.)

Original (Original message is included in the reply message.)

Standard answer, for example Yes (Only the selected standard answer is included in the reply message; you can't edit the answer or add any additional text).

Template (The selected template is included in the beginning of the reply message. The template text can be modified and additional text can be added).

3 If you selected Templates, the list of templates is displayed. Roll to the desired template and press **OK**.

4 Write your reply message and press **Options**, roll to Send and press **OK**. Press **OK** again to send the message to the displayed number.

For sending the reply message to a distribution list or, for example, to a fax, see “Special sending options” on page 47.

Standard answers & templates

Your phone offers you a list of standard answers and templates which you can use in creating and replying to text messages.

The list of default templates can be found in the `Templates` folder of the `Messages` menu. You can edit the templates to your liking, but the original templates will be restored if you select `Restore Factory Settings` (Menu 4-6).

Writing & sending text messages

Within the `Messages` menu you can write and send text messages or save your own messages in the `Outbox` folder for later use.

Writing & sending a text message

1 Once in the `Messages` menu, press **`Options`**, roll to `Write Message` and press **OK**.

2 Enter your message. For information about entering text, see “Entering letters & numbers” on page 35.

Tip: If you want to use one of the standard templates, press **`Options`**, roll to `Insert template` and press **`Roller`**. Then roll to the template you want to use and press **OK**.

3 To send the message, press **`Options`**, roll to `Send` and press **OK**. Then enter the phone number (or recall it from the phone book) and press **OK** to send the message.

The option list includes options for sending, saving, or erasing the message you are writing.

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For information about sending the message to distribution lists or, for example, to a fax, see “Special sending options” on page 47.

To view the messages saved in the Outbox:

1 Once in the `Messages` menu, roll to `Outbox` and press Roller.

2 Scroll to the desired message and press Roller to view it.

The option list under **`Options`** include same options as the option list for reading the messages, except `Reply`.

Special sending options

Sending a text message to a distribution list

When sending a reply message or when writing and sending a message, you can send the message to multiple recipients by using distribution lists. To send a reply message to a distribution list, use the `Forward Multi` option under `Forward Options`. To send an original message to a distribution list, use `Send Multi` under `Send Options`.

1 When you select `Forward Multi` or `Send Multi` and you haven't yet defined any distribution lists, press Roller to add a new distribution list.

2 Mark the number you want to include in the distribution list and press **`Roller`**. Roll to the next number you want to add to the list and press **`Roller`**. When you have marked all the names you want to add to the list, press **`Done`**.

3 Enter the name for the distribution list and press **`OK`**.

4 When the name of the new distribution list is highlighted, press **`Options`**, roll to `Select List` and press **`OK`**.

The options list gives you the following options: `Add New List`, `View List`, `Edit List`, `Rename List`, `Erase List` and `Select List`.

Sending a text message as a fax

You can also send or forward a text message as a fax (for example, to your office fax machine) by using the `Send Special` option under `Send Options` or the `Forward Special` option under `Forward Options`, if supported by your network.

In order to send a text message to a fax, you need to define one special set for fax transmissions in the message settings.

Then when you select `Send Special` or `Forward Special`, you select this predefined set and press Roller. Then you enter the fax number and press **OK**. See “Message settings” on page 50.

Sending & printing text messages via IR

Using your phone’s infrared (IR) port, you can send text messages to a compatible phone or PC which is running an appropriate application. You can also print text messages on a compatible printer.

- Once in the message you want to send or print via IR, press **`Options`**, roll to `Send via IR` or `Print via IR` and press Roller.

  Note: When sending the message via IR to a compatible phone, make sure that the other phone is set to receive data via its IR port.

Organizing your text messages

Message folders

All the text messages stored in your phone’s message memory are organized in folders.

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Inbox and Outbox folders

After you have read an incoming text message, the phone stores the message in the Inbox folder of the `Messages` menu. When you save a message you have written and/or sent, the phone stores the message in the `Outbox` folder.

When the message memory is full and you receive or write new messages, the phone automatically overwrites the oldest messages stored in the `Inbox` and `Outbox` folders.

Archive folder and user-created folders

If you want to make sure that certain messages will not be overwritten when the message memory becomes full, or if you want to further organize your messages, you can move some of your messages to the `Archive` folder. You can also add new folders under the `Messages` menu and store some of your messages there.

Adding or deleting a folder

Once in the `Messages` menu, press **`Options`**, roll to `Add new folder` and press Roller. Enter the name of the new folder and press **OK**.

If you want to delete a folder you have added, roll to the option `Delete folder` and press Roller. Note that when you delete a folder, all the messages contained in that folder will also be deleted.

Moving a text message

Once in the desired message folder (for example, `Inbox`), press **`Options`**, roll to `Move` and press Roller. Roll to the selected folder name and press **OK**.

Erasing a text message

1 Once in the `Messages` menu, roll to the folder where you want to erase one ore more messages and press Roller.

2 Roll to the message you want to erase, press **Options**, roll to Erase and press **OK**.

Message settings

Once in the Messages menu, you can access the message settings menu by first pressing **Options** and then selecting the option Message settings.

There are two kinds of message settings in your phone: set-specific settings and settings common to all text messages.

A set is a group of settings needed for sending text messages. The phone uses the first message set (for example, SMS) as a default if no other set is selected when sending a message. When you reply to a text message and select Send or when you write a text message and select Send, the phone automatically uses the first message set. The options Message center number, Messages sent as and Message validity under Message settings apply to the first message set.

You also can, for example, send a text message to a fax or to an e-mail address (if supported by your service provider) if you have defined a set with proper settings for fax or mail transmissions. See “Special sending options” on page 47.

Settings common to all text messages

The following message settings under the Message settings menu are common to all outgoing text messages, regardless of the selected set.

Delivery reports
You can request the network to send delivery reports about your text messages (network service).

Reply via own center
This network service allows the recipient of your text message to send you a reply message via your text message center.

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Special sets

Within the `Special sets` submenu of `Message Settings` you can change the settings of a particular set (for example, SMS, Fax, etc.). Each of the sets has its own submenu with the following functions:

`Message center number`
The phone number of the message center needed for sending text messages.

`Messages sent as`
For normal text messages, select the option `Text`?; for fax transmission, select the option `Fax`; etc. Note that you can only use the options `Fax`, `Email` and `Page` if your messaging service offers the facility to convert the text messages into these alternate formats. Contact your service provider regarding the availability of this function.

`Message validity`
This network service allows you to set the length of time that your text messages are stored at the message center while attempts are made to deliver them.

`Default recipient`
The default number for any text message sending.

`Rename this set`
Allows you to rename the set to your liking.

10. Phone As Your Personal Assistant

Calendar (Menu 8)

You can use the phone's calendar to keep track of reminders, phone calls, meetings and birthdays. You can set the calendar to sound an alarm when it's time for you to make a call or to go to a meeting.

Menu
Calendar
WeeksExit

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.

Calendar views

Day list

Press **Menu**, roll to `Calendar`, and press Roller to access the day list.

Picture of Day List

Day list allows you to roll through the days day by day. For each day, the day list shows the date and the icon for each note type you have set for the day. See "Adding a calendar note" on page 54.

Tip: Pressing **`Weeks`** enters the week list. The week list allows you to roll your calendar week by week. You can also access the week list by pressing **`Options`**, rolling to `Weeks`, and pressing **`OK`**.

Picture of Week View

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Tip: In the day list and week list, you can quickly jump to a certain date by entering the date by using the number keys. For example, if today is the 9th and you enter 3, the phone jumps to the 3rd day of the following month.

Day view

Picture of Day View

Once in the day list, roll to the desired day and press Roller to access the day view.

Day view allows you to roll through the notes made for the selected day.

Note view

Picture of Note View

Once in the day view, roll to the desired note and press Roller to enter the selected note.

Note view allows you to view the details of the selected note.

The option list for all calendar views includes options for making a note, sending a note via SMS or IR, and printing a note via IR. There are also options for jumping to another day or to the `To-Do List`.

The option list for day view and note view also includes options for erasing, editing and moving a note. For the Meeting, Call and Day note types, there is also an option for copying the note to another day and for repeating the note (every day, every week, biweekly or every year).

The `Settings` option allows you to set the date, time, date format, time format and week format for the calendar. The option `Erase old notes` allows you to set the phone to automatically delete old notes after a specified period of time. However, repeat notes (for example, birthday notes) will not be deleted.

Tip: When you are in the day list, day view or week list, you can quickly go to today's day view by pressing (0#).

Adding a calendar note

1 Once in the `Calendar`, press **`Options`**, roll to `Make Note` and press Roller.

2 Then press **`Options`**, roll to one of the following note types and press Roller. For information about entering letters and numbers, see page 35.

`Meeting`
Enter the note and the date and press **OK**. Repeat this with the time.

`Call`
Enter the desired phone number (or recall it from phone book) and the date and press **OK**. Repeat this with the time.

`Birthday`
Enter the person's name, date of birth and year of birth (optional) and press **OK**. If you enter the year of birth, the note shows the person's age after the name.

`Day note`
Enter the note and the date and press **OK**.

3 Roll with Roller to the desired alarm option and press Roller. If you select the `Custom time`, enter the alarm time and press **OK**.

The presence of a tone alert is indicated by 🕒 when you view the notes.

Picture of To-Do List

When the phone alarms for a note

The phone flashes its lights, beeps, and displays the note. With a `Call` note on the display, you can call the displayed number by pressing TALK. To stop the alarm, press **`Exit`** or END.

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To-Do list (Menu 9)

Picture of To-Do List

Within this menu you can make yourself a to-do list and prioritize your to-do list notes.

Adding a To-Do note:

1 Press **Menu**, roll with Roller to `To-Do List` and press Roller.

2 Press **Options**, select `Add` and press **OK**.

3 Enter the note and press **OK**. For entering letter and numbers, see page 35.

4 Then roll with Roller to the desired note priority (1, 2 or 3) and press **OK**. You can change the priority later by using the option `Change Priority`.

Viewing To-Do notes

Picture of Note View

Once in the `To-Do List`, roll with Roller to a desired note and press Roller to view the details of the highlighted To-Do note.

The option list includes options for adding, erasing and editing the note. There are also options for jumping to `Calendar` and copying the note to the calendar as a day note. There are also options for sending the note (via SMS or IR) or printing the note (via IR).

Clock (Menu 4-1-2)

idle mode with clock

Your phone has a clock. Within the `Clock` menu (4-1-2). you can set the phone to show or hide the clock; set the time; and choose whether the clock uses 12-hour or 24-hour format.

When the phone is set to show the clock, the current time is always shown in the top right of the display, except when you are in the phone book or menu functions.

The clock is used by the following phone functions: Messages (Menu 1), Call log (Menu 2), Alarm clock (Menu 4-1-1) and Calendar (Menu 8).

Note: If the battery is removed from the phone, you may need to set the time again.

Alarm clock (Menu 4-1-1)

With the `Alarm clock` (Menu 4-1-1), you can set the phone to alarm at a specified time.

The alarm clock uses the time format set for the phone clock: 12-hour or 24-hour format. In standby mode, the indicator shows that the alarm is set to on. You can switch the phone off and the alarm clock will still work.

When the alarm time expires

The phone sounds an alert tone (unless `Incoming Call Alert` is set to `Silent` or `Beep once`), the text `ALARM!` is shown, and the phone's lights flash.

If you let the phone alarm for a minute or if you press any other key, the alarm stops for a few minutes and resumes thereafter. You can end this snoozing by pressing `Stop` or switching off the phone.

If the alarm time expires while the phone is switched off, the phone switches itself on and starts alarming. If you press `Stop`, the phone asks whether you want to activate the phone for calls. Press **`Yes`** to register or **`No`** to switch off the phone.

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

Calculator (Menu 7)

You can use your phone's calculator to add, subtract, multiply, divide and convert currency.

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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**, scroll to `Calculator`, and press Roller.

2 "0" appears on the screen. Enter the first number in the calculation (press # for decimal point).

3 To add, press * once (+ appears); to subtract, press * twice (-); to multiply, press * three times (*); to divide, press * four times (/). To add a decimal point, press #.

Or: Press **`Options`**, scroll to `Add`, `Subtract`, `Multiply` or `Divide` and press **OK**.

4 Enter the second number. A subtotal is shown. Then repeat steps 3 and 4 as many times as necessary.

5 For a total, press **`Equals`** (or press **`Options`**, scroll to `Equals` and press Roller).

6 To start a new calculation, press `Clear`.

Note: This calculator has limited accuracy and rounding errors may occur, especially in long divisions.

Using calculator for currency conversion

Setting the exchange rate

1 Once in the `Calculator` menu, press **`Options`**.

2 Roll with Roller to `Set rate` and press **OK**.

3 Roll to `Foreign units in domestic units` or `Domestic units in foreign units`, depending on how you wish to convert the currency, and press **OK**.

4 Enter the appropriate exchange rate and press OK (use the ✲# key for decimals). `Rate saved` is displayed.

Currency conversion

1 Once you have set the exchange rate, enter the amount to be converted (press ✲# for decimal point).

2 Press **`Options`** roll to either `To domestic` or `To foreign`, and press OK.

The phone displays the converted amount.

Tip: If you selected `Foreign units in domestic units` while storing the exchange rate, select `To Domestic` and if you selected `Domestic units in foreign units` select `To foreign`.

Contact manager

You can use your phone's internal phone book as a contact manager by storing a person's contact information (such as street address, e-mail address etc.) along with their name. See "Storing multiple numbers per name" on page 37.

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11. Games (Menu 6)

Not only can you use your phone for communication but also for some serious fun. Your phone offers you three games to choose from.

- In Memory, you reveal pictures to find pairs in as few tries as possible.
- In Snake, you are to feed the snake with as many goodies as possible. The longer the snake's tail grows, the higher your score.
- In Logic, you are to find out a secret combination of figures.

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.

To start a new game:

1 Go to the `Games` menu, roll to the desired game & press Roller.

2 In Memory or Logic, select option `New game`. In Snake, select `1-player` option.

Tip: Snake can also be played as a 2-player game via the IR port of your phone. Before starting the 2-player game, ensure that the IR ports of the two devices are pointing at each other. A 2-player game can be started in the following two ways: 1) both players start the same 2-player game on their phones or 2) the first player sets up the infrared connection by entering the `Activate IR` menu (Menu 11) and the second player starts the 2-player game in the normal way.

Use the option `Instructions` to learn how to play the game. With the option `Level` you can choose the difficulty level of the game.

In Snake you can pause the game by pressing either selection key and then resume a paused game with the option `Continue`. With the option `Top score` you can check the highest score in your phone.

12. Browser (Menu 10)

The Browser menu allows you access to WWW services supported by your network, such as news, weather reports, flight times, dictionaries, and so on. Within the Browser menu you can save addresses of WWW services as bookmarks and then you can use the services via the Bookmarks option.

Note that the content of each service depends on the content provider of that service. To use a service, follow the instructions provided by the content provider.

When you enter the Browser menu for the first time, the phone prompts you to enter the Server number, Service number and Homepage URL of a WWW service.

After you have saved the Homepage URL, the service is saved as a home service. You can quickly access the home service by pressing **Home** when entering the Browser menu.

To save a WWW service as a bookmark:

Once in the Browser menu, press Roller and roll to Settings. After saving the server number and service number, the phone displays Connect to the service? Press **OK**.

While browsing the service, press **Options**, roll to Add bookmark, and press Roller.

To enter a WWW service saved as a bookmark:

Once in the Browser menu, press Roller at Bookmarks, then press **Options**. When you see Go to, press Roller to activate the service.

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13. Settings (Menu 4)

Within the `Settings` menu you can change a number of settings related to the phone's functions and security.

Time settings (Menu 4-1)

See "Alarm clock (Menu 4-1-1)" on page 56.

See "Clock (Menu 4-1-2)" on page 55.

Call settings (Menu 4-2)

Anykey answer (Menu 4-2-1)

When this feature is turned on, you can answer an incoming call by briefly pressing any key except ⓘ or END.

Automatic redial (Menu 4-2-2)

When this feature is turned on, your phone will make up to three attempts to connect the call after an unsuccessful call attempt.

Emergency key 9 (Menu 4-2-3)

When this feature is turned on, the phone attempts to make an emergency call when you:

- press and hold the 9 key, or

- press 9, then press TALK.

Note: When Keyguard is active, the only way to make an emergency call is to dial the emergency number, then press TALK.

IMPORTANT! Official emergency numbers (for example, 911) vary by location. Only one number is dialed automatically by Emergency Key 9, and it might not be the proper number in all circumstances.

Calling card (Menu 4-2-4)

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

To learn how to make calling card calls, see 'Calling card calls' on page 23.

Saving calling card information

1 Press `Menu` 4-2-4.

2 Scroll to the desired calling card, then press `Options`.

3 Scroll to `Edit`, then press OK.

4 Enter your security code (see page 73), then press OK.

5 At `Dialing sequence`, press `Select`. Scroll to the dialing sequence your card uses, then press `Select`.

Dialing sequence	Use for cards that require you to:	Cards using this sequence
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

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Dialing sequence	Use for cards that require you to:	Cards using this sequence
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 (+ PIN if required)	GTE, PacBell, AT&T, Stentor

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

6 Enter access number (usually the 1-800 number listed on the back of the calling card), then press **OK**.

7 Enter your card number and/or PIN, then press **OK**. Your phone will display `Save changes?` Press **OK**.

8 Scroll to `Card name`, then press `Select`. Enter the card name using your phone's keypad, then press **OK**.

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

Choosing a calling card to use

To select a calling card to use, press `Menu` 4-2-4, scroll to the card you want, then press `Options`. `Select` is highlighted; press **OK**. Enter your security code, then press **OK**.

Phone settings (Menu 4-3)

Language (Menu 4-3-1)

You can select a language for the phone's display.

This setting also affects the time and date formats of the following functions: Alarm clock (Menu 4-1-1), Clock (Menu 4-1-2), Calendar (Menu 8).

Roller function (Menu 4-3-2)

Pressing **Roller** when the display is clear activates the Roller Menu. As a default, the Roller Menu allows you access to the list of names and numbers stored in phone book (`Names List`). Instead you can set the Roller Menu to allow you access to one of the following:

`Quick Menu` (allows you quick access to Messages, Calendar, Profiles, `Names List` and Menu), `1-touch dialing`, `Dialed calls`, and `Profiles`.

Touch tones (Menu 4-3-3)

Animation (Menu 4-3-4)

Welcome note (Menu 4-3-5)

This menu allows you to set the message which is shown when the phone is switched on.

Security settings (Menu 4-4)

Your phone is equipped with a versatile security system to prevent unauthorized use of the phone. See “Security Features” on page 72.

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Call restrictions (Menu 4-4-1)

This network service allows you to restrict making and receiving calls with your phone. For this function you need the restriction password.

Within this menu you can bar all outgoing calls (`Outgoing calls`), all calls to abroad when in home country (`International calls`), all international calls except to calls to home country when abroad (`International except to home country`), all incoming calls (`Incoming calls`), all incoming calls when abroad (`Incoming calls if abroad`) or you can cancel all call restrictions (`Cancel all restrictions`).

For each function (except `Cancel all restrictions`) you have the following options: `Activate`, `Cancel`, or `Status` (which shows the restricted call types).

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

Change access codes (Menu 4-4-2)

With this menu you can change the access codes: security code, PIN code and PIN2 code. These codes may only include the characters 0 to 9. The phone prompts you to enter the current code and the new code. It also prompts you to verify the new code.

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

Network services (Menu 4-5)

Voice privacy (Menu 4-5-1)

Available only in digital networks, voice privacy encrypts the voice channel so it is more difficult for anyone to eavesdrop on your conversations. Use `Menu` 4-5-1 to turn voice privacy on or off.

This feature may not be available in all areas; contact your service provider for details. If voice privacy becomes inactive, the phone beeps and displays `Voice privacy not active`.

Call forwarding (Menu 4-5-2)

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

Activating call forwarding: standard method

To activate call forwarding, you must get the call forwarding activation code from your service provider.

1 Dial the code for activating call forwarding followed by the phone number to which you want to forward your calls.

2 Press TALK.

Example: If the call forwarding activation code is *71 and the number you want to forward calls to is (214) 555-1234, dial `*712145551234`, then press TALK.

Activating call forwarding: menu method

You can save the code for activating call forwarding and then use the menu to activate call forwarding. See ‘Adding feature activation codes to the menu’ on page 68.

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Cancelling call forwarding: standard method

To cancel call forwarding, you must get the call forwarding cancellation code from your service provider.

1 Dial the code for cancelling call forwarding (for example, *710).

2 Press TALK.

Cancelling call forwarding: menu method

You can save the code for cancelling call forwarding and then use the menu to cancel call forwarding. See 'Adding feature cancellation codes to the menu' on page 68.

Call waiting (Menu 4-5-3)

When this network service is activated, the network will notify you of a new incoming call while you have a call in progress. See "Call waiting" on page 24.

Send own number (Menu 4-5-4)

This network service allows you to set whether your phone number is hidden or displayed to the person you are calling. `Preset` resets the phone to the default setting, `On` or `Off`, that you have agreed upon with your service provider.

Network feature setting (Menu 4-5-5)

Call forwarding, call waiting, and send own number are network services available through your service provider. These features do not appear in your phone's `Network services` menu until you save the related feature code(s) given to you by your service provider. After you save the feature activation or cancellation code, the feature appears in the phone's menu and you can use the menu to turn the feature on or off.

Note: Feature codes can be saved only when your primary phone number (NAM 1) is selected. See page 68.

Adding feature activation codes to the menu

To save a feature activation code, press Menu 4-5-5. At the Feature code: prompt, enter the feature activation code, then press OK. Scroll to the feature that the code applies to, then press Select. (If the feature is call forwarding, choose one of the four types of call forwarding.) Finally, scroll to Activate, then press OK.

Activate will now appear in the menu for that feature.

Adding feature cancellation codes to the menu

To save a feature cancellation code, press Menu 4-5-5. At the Feature code: prompt, enter the feature cancellation code, then press OK. Scroll to the feature that the code applies to, then press Select. (If the feature is call forwarding, choose one of the four types of call forwarding.) Finally, scroll to Cancel, then press OK.

Cancel will now appear in the menu for that feature.

NAM selection (Menu 4-5-6)

Your service provider can set up your phone to have three phone numbers that are activated in different service areas—for example, one number for the Dallas area, one number for the Chicago area, and one number for the New York area.

A number assignment module, or NAM, consists of a phone number and network information that the service provider programs into your phone. When you select a NAM, you're not only selecting a phone number, you're also selecting a home system in which you will not be charged roaming fees.

NAMs are not equal. Some features, such as system selection (see page 27) and network feature setting (see page 67), are available only when the primary NAM is selected.

Use Menu 4 2 7 to select a NAM.

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Restore factory settings (Menu 4-6)

Within this menu you can reset the menu settings to their original values. The security code is needed for this function.

14. Infrared

Within the `Activate IR` menu (Menu 11) you can set your phone to send or receive data through its infrared (IR) port. To use an IR connection, the device with which you want to establish a connection must be IRDA compliant. The phone is a Class 1 Laser Product.

Note: The preferable distance between the two devices in infrared connection is three feet at most. There must be no obstructions between the two devices and the IR ports of the two devices have to be pointing at each other.

Sending & receiving data via IR

Your phone has an internal data feature. No data suite or data card is needed to send or receive data.

You can receive or send data (such as text messages, ringing tones, phone book entries (business cards), calendar notes, To-Do notes) from/to a compatible phone or device (for example, computer) via the IR port of your phone.

You can also print such data on a compatible printer. See “Copying & printing via IR” on page 41 and “Sending & printing text messages via IR” on page 48.

To send or receive data via IR:

1 Ensure that the IR ports of the two devices are pointing at each other.

2 The IR port of the receiving device need to be activated for data reception via this menu.

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3 The user of the sending device selects the desired IR function to start data transfer.

If data transfer is not started within 45 seconds after the activation of the IR port, the connection is cancelled and has to be started again.

Checking the status of an IR connection

The status of an IR connection is indicated by ›--.

- When ›-- is shown continuously, there is an IR connection between your phone and the other device.
- When ›-- is not shown, no IR connection exists.
- When ›-- blinks, your phone is trying to connect to the other device or the connection has been lost.

15. Security Features

Keypad Lock (Keyguard)

With keypad lock (keyguard) you can temporarily lock your phone's keypad to prevent the keys from being accidentally pressed (for example, when the phone is in your pocket or in your purse).

To lock the keypad:

- Close the sliding cover and press **Lock Keys**.

appears at the top of the display.

To unlock the keypad:

- Open the sliding cover.

If you want to lock the keys without closing the slide, press first **Menu** and then press * *within three seconds*. To unlock the keypad, press **Unlock** and then * within three seconds or press **OK**.

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

Locking your phone

You can prevent unauthorized use of your phone by locking it. When your phone is locked, only incoming calls and calls to the unlocked phone number (see below) are allowed. The memory and menu are unavailable.

Note: Calls may still be possible to emergency numbers.

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How to lock your phone

Press Menu 4-4-2-1. Enter the lock code (see page 74), then press OK. Scroll to On, then press OK.

How to unlock your phone

Press Menu, enter the lock code, then press OK.

Answering a call when the phone is locked

Press Answer.

Saving the unlocked phone number

Use Menu 4-4-2-2 to save a number that may be called even when your phone is locked. You will be required to enter the lock code.

Calling the unlocked phone number

Roll up or down, or manually enter the number exactly as it is saved, then press TALK.

Access codes

Access codes can be used to protect your phone against unauthorized use. The security code is also required for using some functions.

Access codes can be changed by using menu 4-4-2.

Security code (5 digits)

The security code is required to restrict calls and to restore factory settings. The default security code is 12345. Use Menu 4 3 2 4 to change the security code.

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 succession, the phone will not accept any input for the next five minutes.

Lock code (4 to 8 digits)

Your phone's lock code is used to lock and unlock your phone. The default lock code is 1234. Use `Menu` 4-4-2-3 to change the lock code.

When the phone requires the lock code, it displays `Enter lock code:` Enter the code, then press OK.

If you enter a wrong lock code five times in succession, your phone prompts you for the security code.

Restrict calls

Use `Menu` 4 3 1 to restrict outgoing or incoming calls. This is handy if you want to lend your phone to someone but don't want them to make long-distance or other expensive calls.

Restricting incoming calls

Choose `Restrict incoming calls` to prevent your phone from receiving incoming calls. Enter your security code, then press OK. Press `Mark`, then press `Back`. Press `Yes` to save this change (or `No` to cancel).

Note: This feature requires the caller ID network service, and the caller's ID must be available to the phone in order for the restriction to work.

Allowing incoming calls

To allow incoming calls once again, choose `Restrict incoming calls` and enter your security code. Press `Unmark`, then press `Back`. Press `Yes` to save this change (or `No` to cancel).

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Restricting outgoing calls

You can create a list of numbers to which outgoing calls cannot be made. A call restriction can consist of an entire phone number, an area code, etc. When the restriction is selected, calls cannot be made to any number beginning with those digits. For example, entering `2145551234` will block calls to (214) 555-1234 only. `1` will block all calls starting with 1, including long distance calls and 1-800 calls. `1800` will block 1-800 calls only.

Adding numbers to the restricted outgoing calls list

To prevent your phone from making outgoing calls, choose `Restrict outgoing calls`. Enter your security code, then press **OK**. Continue with the steps illustrated below.

1 `Add restriction` is selected. Press **OK**.

2 Enter the phone number, area code, etc. to which you want to restrict calls, then press **OK**.

3 If you want, give a name of up to 10 characters to the restriction (such as `Joey`, `Long dist`, or `1-800 #s`), then press **OK**.

4 The entry is added to your list of restricted numbers.

Allowing calls to a number on the list

If you later decide to allow calls to a restricted number, press `Select` to see your list of numbers. Press `Unmark` to remove the restriction. (The number remains in the list so that you can restrict it again later by pressing `Mark`.) When you're done, press `Back`. Press `Yes` to save your changes (or `No` to cancel).

Making changes to the restricted outgoing calls list

To edit or completely erase an entry in the list, choose `Edit` or `Erase`, select the entry you want to edit or erase, and follow the instructions on the screen.

16. Reference Information

Using batteries & chargers

For charging and recharging your phone battery, see “Charging the battery” on page 10.

- Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer.
- 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 stand-by time) is noticeably shorter than normal, it is time to buy a new battery.
- 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.
- For good operation times, discharge the NiMH 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.
- When the battery is running out of power and only few minutes of talk time remain, a warning tone is heard and `Battery low` is briefly displayed. When no more talk time is left, `Battery empty` is displayed and a warning tone is sounded and the phone switches itself off.
- 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

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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 15 C and 25 C (59 F and 77 F). 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 -10°C (14 F). Li-Ion batteries performance is particularly limited in temperatures below 0 C (32 F).
- Batteries must be recycled or disposed of properly. Must not be disposed of in municipal waste.
- Do not dispose of batteries in fire!

Accessories & Batteries

This apparatus is intended for use when supplied with power from ACP-7, ACP-9, LCH-9 and DCH-9. Other usage will invalidate any approval given to this apparatus and may be dangerous.

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 will invalidate any approval or warranty applying to the phone, and may be dangerous.

For availability of approved accessories, please check with your dealer.

When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

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 20 cm (6 inches) be maintained between a hand-held 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 pacemaker:

- Should always keep the phone more than 20 cm (6 inches) from their pacemaker when the phone is switched on;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

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Hearing Aids

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

Other Medical Devices

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

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (for example, electronic fuel injection systems, electronic 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 when at a refuelling 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 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 (for example, medical emergencies).

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

To make an emergency call:

1 If the phone is not on, switch it on.

2 If the word Clear" appears above right selection key, press and hold the selection key to clear the display.

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3 Enter the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.

4 Press the B key.

If certain features are in use (Keypad lock, Fixed Dialling, etc.), you may first need to turn those features off before you can make an emergency call. Consult this document and your local wireless 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.

Care & Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and 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. 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 temperature), moisture can form inside the phone, which may damage 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 are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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17. Technical Information

Transmitting power:	Up to 600 mW nominal	
Operating voltage:	3.6 V nominal	
Wireless system:	Dual-band TDMA and AMPS	
Frequency range:	lowband	824.04 - 848.97 MHz (TX) 869.04 - 893.97 MHz (RX)
	highband	1850.04 - 1909.92 MHz (TX) 1930.08 - 1989.96 MHz (RX)
Number of channels:	lowband highband	832 1997
Number of NAMs	3	
Memory locations:	up to 1000	
Memory capacity:	16 characters per name 32 characters per number	

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The information contained in this User Guide was written for Nokia phone NSW-5NX.

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