User's Guide for Nokia 2100

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The availability of particular accessories may vary by region. Please check with the Nokia dealer nearest to you.

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Network Services

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

Dualband is a network dependant feature. Check with your local service provider if you can subscribe to and use this feature.

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

Note: Some networks may not support all language-dependant characters and/or services.

Charger and accessory

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from ACP-7, ACP-8 and LCH-9.

Warning: Use only batteries, charger and accessories approved by the phone manufacturer for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

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

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

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General information

■ Stickers in the sales package

The stickers contain important information for service and customer support purposes. Keep these stickers in a safe place.

Attach the A sticker to Your details page of this owner's guide.

■ Access codes

- **Security code:** This code, supplied with the phone, protects your phone against unauthorised use. The preset code is 12345.

  Refer to *Security level* in the *Security settings* menu on page 23 to see how it works.

- **PIN code:** This code, supplied with the SIM card, can protect the card against unauthorised use. Please note, some phones are provided with PIN code disabled.

  Set on the *PIN code request* in the *Security settings* menu (see page 23), then the code is requested each time the phone is switched on.

  If you enter the PIN code incorrectly three times in succession, the SIM card is blocked. You need to enter the PUK code to unblock the SIM card and set a new PIN code.

- **PIN2 code:** This code is supplied with some SIM cards and is required to access certain services, such as charging unit counters.

  If you enter the PIN2 code incorrectly three times in succession, *PIN2 code blocked* shows on the display, and you will be asked for the PUK2 code.

  Change the security code, PIN code and PIN2 code in *Change of access codes* in the *Security settings* menu (see page 23). Keep the new codes secret and in a safe place separate from your phone.

- **PUK and PUK2 code:** These codes may be supplied with the SIM card. If this is not the case, contact your local service provider.

  If you enter PUK code incorrectly ten times in succession, the SIM card may no longer be used.

  If you enter PUK2 code incorrectly ten times in succession, the PIN2 code is discarded and you will not be able to use the services that require the PIN2 code.

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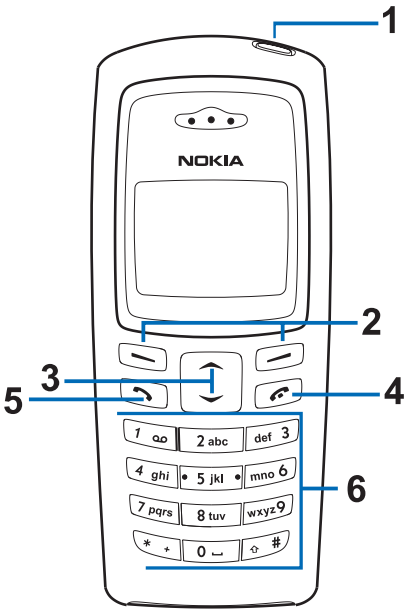
1. Getting started

Keys and display indicator



1. **Power key,**

switches the phone on and off.

While in the phone book or in menu functions, or when the keypad is locked, briefly pressing the power key turns the phone's display lights on for a few seconds.

2. **Selection keys**

The function of the keys depends on the guiding text shown on the display above the keys, for example **Menu** and **Names** in standby mode.

3. **Scroll keys**

Enables scrolling through names, phone numbers, menus or settings. Also adjusts the earpiece volume during a call.

4. **End key**. Ends an active call. Exits from any function.
5. **Dial key**. Dials a phone number, and answers a call. In standby mode, it shows the most recently called number.
6. 0 – wxyz 9 enter numbers and characters. Pressing and holding 1 ∞ calls your voice mailbox. (Network Service)

   * + and # are used for various purposes in different functions, for example, when locking the keypad.

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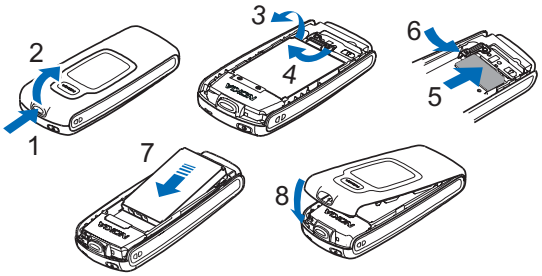
Inserting a SIM card and battery

- Keep all miniature SIM cards out of the reach of small children.
- The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting or removing the card.
- Before installing the SIM card, ensure that the battery is removed. Before removing the battery, ensure that the phone is switched off and disconnetcted from any accessory



1. Press the back cover release button (1), open the back cover from the top (2) and remove it.
2. Remove the battery by lifting it from the finger grip (3). Open the SIM card gate by rotating it (4).
3. Slide the SIM card carefully into the SIM card slot (5). Make sure that the gold colour connectors on the card are facing downwards and that the bevelled corner is on the right. Rotate the SIM card gate back to lock the SIM card (6).
4. Align the gold colour connectors on the battery with the corresponding connectors on the phone, and push the opposite end of the battery until it snaps into place (7).
5. Align the bottom of the back cover to the bottom of the phone, press the top of the back cover to lock it into place (8).

Charging the battery

- Do not charge the battery when one or both of the phone covers is removed. See also "Battery information" on page 30.

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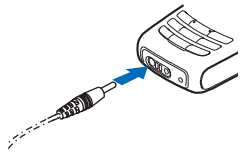
1. Connect the lead from the charger to the bottom of the phone.
2. Connect the charger to an AC wall outlet. The battery indicator bar starts scrolling on the display.
   - The phone can be used while charging if it is switched on.
   - Charging an empty BLD-3 battery with the ACP-7 charger takes up to 3 hours 30 minutes.
   - If *Not charging* is displayed, wait for a while, disconnect the charger, plug it in again and retry. If charging still fails, contact your dealer.
3. When the battery is fully charged, the bar stops scrolling. Disconnect the charger from the AC outlet and the phone.



■ Switching on or off

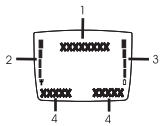
Press and hold the ⏻ key for a second.

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

TIPS ON EFFICIENT OPERATION:

Your phone has a built-in antenna. As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed. Not touching the antenna area during a phone call optimises the antenna performance and the talktime of your phone.

■ Display in standby mode



1 - Shows the operator's logo(Network Service).
2 - Signal strength of the cellular network at your current location.
3 - Battery charge level.
4 - The function of the soft keys.

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Other essential indicators

You have received a text or picture message.See also page 14.

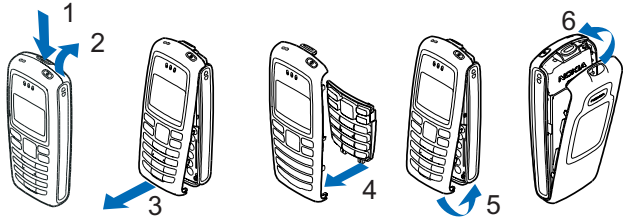
The phone does not ring or beep when you receive a call. See also page 17.

The keypad is locked. See also page 8.

The alarm clock is on. See also page 24.

■ Changing the covers

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



1. Press the back cover release button (1), open the back cover from the top (2) and remove it.
2. Take off the front cover carefully (3).
3. Insert the keymat in the new front cover (4).
4. Align the top of the front cover to the top of the phone, press the front cover to lock it into place (5).
5. Align the bottom of the back cover to the bottom of the phone, press the top of the back cover to lock it into place (6).

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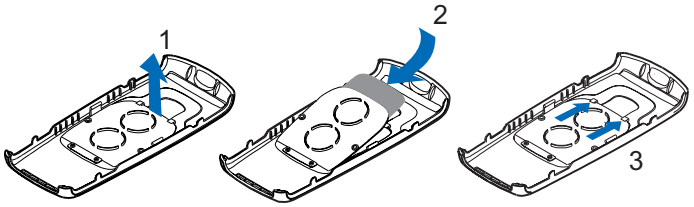
Inserting a photo in the back cover

You can insert one of your favourite photos in the back cover.The size of photo should not be larger than 40mm x 28.5mm. Please note if the photo is smaller than the window size, it may not stay in its position.



1. Remove the back cover as described earlier.
2. Lift up the rubber photo holder gently from inside of the back cover (1).
3. Insert the photo with its image side facing the transparent window of the cover (2) .
4. Lock the rubber photo holder in its place (3).

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2. Basic functions

■ Making and answering calls

Making calls

1. Key in the phone number including the area code.

   To make international phone calls: Add a "+" by pressing * twice, and the country (or region) code in front of the area code (delete the leading 0 if necessary).

   Press **Clear** to delete the digit to the left of the cursor; move the cursor to the desired position by pressing ↑ or ↓ if necessary.
2. Press and wait for the answer.

   Press ↑ to increase or ↓ to decrease the volume of the earpiece or headset.
3. Press to end the call (or to cancel the call attempt).

Making calls using the phone book

1. In standby mode, press ↓ or ↑;
2. Use ↓ or ↑ to reach the desired name;
3. Press to call the number.

Redialling

To redial one of the last 10 phone numbers you have called or attempted to call: Press in standby mode, scroll with ↓ or ↑ to the desired phone number or name, and press .

Speed dialling

If the phone number has been assigned to a number key for speed dialling (see "speed dials" on page 11), you can speed dial the number in the following ways:

- Press the corresponding number key and then press , or
- Pressing and holding the corresponding number key. Before using this method, set *Speed dialling* (Menu 4-2-3) to "on" (see page 20).

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Making a conference call

This feature allows up to four persons to take part in a conference call (Network Service).

1. While in a call, press **Options**, scroll to *New call* and press **Select**.
2. Key in the phone number or recall it from the phone book and press **Call**.
3. When the new call is answered, add it to the conference call by pressing **Options** and selecting *Conference*.
4. To add a new participant to the call, repeat steps 1 to 3.
   - To have a private conversation with a single participant, press **Options** and choose *Private*.
   - Select the participant and press **OK**.
   - Press *Swap* or to switch between the conference call and the private call.
   - To return to the conference call, select *Conference* again. See step 3.
5. To end the conference call, press .

Note that it is not necessary for the host to make all the calls needed, any other members called by the host may be able to continue calling the rest members.

Answering calls

1. In standby mode, press . Press to end the call.
2. To reject the call without answering, press .

Listening to voice messages

Contact your service provider to learn more about this Network Service.

To divert calls to your voice mailbox, refer to "Call divert" on page 20. You can obtain the number from your service provider.

1. In standby mode, press and hold to call your voice mailbox.
2. If the phone asks for the voice mailbox number, key it in and press **OK**. You can obtain the voice mailbox number from your service provider.
3. To change the voice mailbox number, see "Voice mailbox number (Menu 01-12)" on page 17.

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In-call operations

Depending on the situation of the phone call, some of the following operations can be performed during a call by pressing **Options**: (Many of these operations are Network Services.) *Mute* or *Unmute*, *Hold* or *Unhold*, *Answer*, *Reject*, *Menu*, and *Phone book*, and following Network Services: *New call*, *End all calls*, *Send DTMF*, *Swap*, and *End call*.

Locking the keypad

The keypad lock prevents keys from being pressed accidentally.

To lock the keypad or unlock the keypad: In standby mode, press **Menu** and then * + quickly.

You can also set the phone to turn on the keylock automatically after a certain period of time. Refer to "Keyguard settings (Menu 4-5)" on page 22.

Note: When keypad is locked, calls may be possible to the emergency number programmed into your phone (e.g. 112 or other official emergency number). Key in the emergency number and press . The number is displayed only after you have keyed in its last digit.

Writing text

You can key in text in two different ways, using the traditional text input, indicated with , or another method called predictive text input,indicated with on the upper left corner of the screen.

Setting predictive text input on or off

When writing text, press **Options** and select *Dictionary*.

- To set the predictive text input on, select a language in the dictionary options list. Predictive text input is only available for the languages on the list.
- To change back to the traditional text input, select *Dictionary off*.

Using predictive text input

Predictive text input offers an easy way to write text.

The predictive text input is based on a built-in dictionary to which you can also add new words.

1. Key in the desired word by pressing each key once for one letter.

   For example, to input 'Nokia', press mno 6 mno 6 5 jkl 4 ghi 2 abc.

   - To delete the character to the left of the cursor, press **Clear**. To clear the screen, press and hold this key.

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- To switch between upper and lower cases, or between traditional and predictive text input, press # repeatedly and check the indicator at the top of the display. Press and hold # to change between letters (upper ABC and lower cases abc) and numbers 123.
- To get some punctuation marks by pressing 1, then pressing * repeatedly until the desired punctuation mark is shown.
- To get a list of special characters, press and hold *, select the desired character, and press **Use**.
- To insert a number, press and hold the desired number key. To insert several numbers, press and hold # and key in the numbers.

2. If the displayed word is the one you want, press 0 and start writing the next word.
   - If you want to change the word, press * repeatedly to find the desired word.
   - If a "?" is shown after the word, it means that the word is not in the dictionary. To add the word into the dictionary: Press **Spell**, key in the word using traditional English input (see page 9), and press **OK**.
3. If **Options** is shown, you can access *Matches*, *Insert word*, *Insert number* and *Insert symbol* by pressing :

Writing compound words

Key in the first half of the word, press , and then key in the second half.

Using traditional text input

When writing text, press the key marked with the desired letter one or more times until the letter appears. Note that not all available characters are visible on the keypad. Use the following functions to edit the text:

- To add a space, press 0.
- To add a punctuation mark or special character, press 1 repeatedly; or press *, select the desired character, and press **Use**.
- To move the cursor left or right, press or , respectively.
- To delete the character to the left of the cursor, press **Clear**. To clear the screen, press and hold this key.
- To switch between upper and lower case, press # .
- To add a number, press and hold the desired key. To switch between letters and numbers, press and hold # .
- To key in a letter which is under the same key as the previous one, press or (or wait until the cursor appears), and key in the new letter.

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3. Phone book (Names)

You can save names and phone numbers in the phone's memory (internal phone book) and in the SIM card's memory (SIM phone book). The internal phone book can save up to 100 names.To access the phone book, press **Names**in standby mode. To access the phone book during a call, press **Options** and select *Phone book*.

Select	to
Search	search the numbers or names you want. 1. Key in the first character(s) of the name you are looking for. 2. Press **Search**. 3. Press ⌃ or ⌄ to find the desired name. If names or phone numbers are saved in the SIM card memory, ▣ is shown at the upper right corner of the display; if it is stored in the phone's internal memory, ☎ is shown.
Add name	store names and phone numbers in the internal or the SIM phone book.
Edit	modify the saved names and phone numbers.
Delete	remove names and phone numbers from the selected phone book one by one (*One by one*) or all at once (*Delete all*). You need to provide the security code to *Delete all*. For more information about the security code, see "Access codes" on page iv and "Security level" on page 23.
Copy	copy names and phone numbers all at once (*All*) or one by one (*One by one*) from the phone to the SIM card, or vice versa. If the name already is in the target phone book with a different phone number, an ordinal number is added to the end of the name.
Assign tone	set the phone to play the desired ringing tone when you receive a call from a particular phone number. Select the desired phone number or name and press **Assign**. Note this function only works when the network is able to identify the caller's number and send it to your phone.

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Select	to
Settings	adjust the phonebook settings. You can select the phone book (*Memory in use*), set the type of view for stored names and phone numbers, and check phone book status using the following options: • *Memory in use*: Select whether the names and phone numbers are saved in *Phone* or *SIM card*. Note that when you change the SIM card, the *SIM card* memory is automatically selected. • *Phone book view*: Select how the names and phone numbers are shown, either *Name list*, or *Name and no.*, or *Large font*. • *Memory status*: Scroll to *SIM card:* or *Phone:*, you can see how many names (or phone numbers) are already saved and how many can still be saved in the SIM card or phone.
Speed dials	assign phone numbers to keys for speed dialling. 1. Scroll to the desired key (2 abc to wxyz9) and press **Assign**. 2. Scroll to the desired name and press **Select**.
Service Nos.	call the service numbers of your service provider if the numbers are included in your SIM card.
Info numbers	call the information numbers of your service provider if the numbers are included in your SIM card.

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4. Menu functions

1. **Messages**
   1. Write message
   2. Inbox
   3. Outbox
   4. Chat
   5. Picture messages
   6. Distribution lists
   7. Templates
   8. Smileys
   9. Delete messages
   10. Message settings
   11. Info service
   12. Voice mailbox number [1]
   13. Service command editor

2. **Call register**
   1. Missed calls
   2. Received calls
   3. Dialled numbers
   4. Delete recent call lists
   5. Call duration
   6. Call costs
   7. Call cost settings
   8. Prepaid credit

3. **Profiles**
   1. General
   2. Silent
   3. Discreet
   4. Loud
   5. My style
   6. (empty)

4. **Settings**
   1. Tone settings
   2. Call settings
   3. Phone settings
   4. Time and date settings
   5. Keyguard settings
   6. Accessory settings
   7. Security settings
   8. Restore factory settings

5. **Alarm clock**

6. **Reminders**
   1. Add new
   2. View all
   3. Delete

7. **Games**
   1. Select game
   2. Settings

8. **Extras**
   1. Calculator
   2. Stopwatch
   3. Countdown timer
   4. Picture editor
   5. Composer
   6. Chinese lunar calendar[2]

9. **SIM services** [3]

1. May not be shown if the voice mailbox number has been saved on the SIM card by your network operator or service provider.
2. Shown only when the phone's Language is set to simplified or traditional Chinese.The availablity of the languages depends on the market.
3. The availability, name and contents depend on the SIM card used.

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■ Accessing the menu functions by short cut

The menus, submenus and setting options are numbered. These numbers are called shortcut numbers.

In standby mode, press **Menu**, within three seconds, key in the shortcut number of the menu you want to access. Repeat this for submenus.

Note that the shortcut number for *Messages* is 01.

■ Messages (Menu 01)

You can write and send multi-part text messages[1] (Network Service). Sending multipart messages may affect the invoicing for the message. If you use special (Unicode) characters more parts may be needed for the message than otherwise. Note that predictive text input may use Unicode.

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

Writing and sending text messages (Write messages: Menu 01–1)

To send a message, the phone number of your message centre has to be saved in the phone. See "Message settings (Menu 01-10)" on page 17.

1. Key in the message. The number of available characters and the current part number are shown on the top right of the display.
2. When the message is complete, press **Options**, select *Send*, key in the recipient's phone number, and press **OK**.

   If you want to send the message to several people, select *Sending options* and *Send to many*, scroll to the first recipient, and press **OK**. Repeat this for each recipient and press **Done** to finish.

   To send a message to a predefined distribution list, select *Sending options* and *Send to list*. To define and edit distribution lists, see "Distribution lists (Menu 01-6)" on page 15.

   Other options are: *Use template*, *Insert smiley*, *Sending profile* (refer to "Message settings (Menu 01-10)" on page 17), *Save*, *Delete*, etc.

1. Nokia 2100 allows you to write a message with the length up to several times of the limit of an ordinary message defined by your service provider.

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Reading a text message (Inbox: Menu 01-2)

When you have received text messages in standby mode, the number of new messages as well as a ✉ are shown on the display.

1. Press **Read** to view the messages right away.

   To view the messages later, press **Exit**. Go to the *Inbox* menu (Menu 01-2) when you want to read the messages.

2. Use scroll keys to browse through the message.
3. While reading the message, you can press **Options** for the following: *Delete*, *Reply*, *Chat*, *Edit*, *Use number*, *As reminder*, *Forward*, *Details*. For more information on Chat, please see also "Chat (Menu 01-4)" on page 14.

Viewing a message you have saved (Outbox: Menu 01-3)

In the *Outbox* menu you can view the messages that you have saved in the *Write message* menu (Menu 01-1). Press **Options** for the following: *Delete*, *Edit*, *Use number*, *As reminder*, *Forward*.

Chat (Menu 01-4)

In the standby mode, press **Menu** and select *Messages* and *Chat* to start a chat. You can also start a chat by choosing the *Chat* from the **Options** list when reading a received text message.

1. Key in the other person's phone number or recall it from the phone book, and press **OK**.

   If you wish to chat with the person you last chat with, part of the content of last chat will be shown.

2. Key in your nickname for the chat, and press **OK**.
3. Key in your message, press **Options**, and select *Send*.
4. The reply you receive from the other person is displayed above the message you sent.

   To reply to the message, press **OK** and repeat step 3 above.

   To edit your nickname, press **Options** and select *Chat name*.

Note that chat is based on the SMS messages, and each chat message is sent as a separate SMS message

Picture messages (Menu 01-5)

You can receive and send messages that contain pictures (Network Service). The picture messages are saved in this folder. Note that:

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- Each picture message is made up of several text messages. Therefore, sending one picture message may cost more than one text message.
- Since picture messages are saved in the phone, you cannot view them if you use the SIM card with another phone.

Note: This function can be used only if it is supported by your network operator or service provider. Only phones that offer picture message features can receive and display picture messages.

When you receive a picture message

To view the message immediately, press **View**. Press **Save**, or **Back** to discard.

To view the message later, press **Exit**, and save the message in the folder.

When you save a new picture message, you may need to replace the factory installed picture message in the phone.

Options for a picture message

Select a picture message and press **View**.Press **Options** and select *Forward* to send it without editing, *Edit picture* to edit the picture (refer to "Picture editor (Menu 8-4)" on page 27), *Edit text* to edit before sending, or *Preview* to view the whole message.

Distribution lists (Menu 01-6)

If you need to send messages frequently to a fixed group of recipients, you can define a distribution list containing those recipients and use this list, when sending a message. You can define up to 6 distribution lists containing up to 10 recipients each. When you send messages to a distribution list, separate messages will be sent to all the member in the list.

To view and edit distribution lists, press **Menu** and select *Messages*, and *Distribution lists*.

Press Options to get the following options to edit distribution lists:

Select	to
View list	view the names in the selected distribution list
Add list	add a new distribution list
Rename list	rename the selected distribution list
Send message	send a message to the distribution list
Delete list	delete the selected distribution list

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To edit the content of a distribution list, you have to be in the list view with the option *View list*. Press **Options** to get the following options to edit the content of a distribution list:

Select	to
Add name	add a name to the distribution list
View details	view the details of the selected name
Remove name	delete the selected name in the distribution list

To send a message to the recipients in a distribution list, after writing the message, press **Options** and select *Sending options* and *Send to list*. While sending the message to the recipients, the phone displays the progress with the number of messages left to send.

If one or more sending operation is failed during the process, a report listing the number of failures, successes and not found names (those names which no longer exist in your phone book)will be displayed. You can select each category by pressing *Select*.

Select	to
Resend	resend the message to the recipients to whom the messages was not sent successfully
View	view the list of recipients to whom the messages was not sent successfully
Remove	remove the names in the group of not found, the names in the distribution list but have been deleted from the phone book

Templates (Menu 01-7)

You can view or edit the preset messages ('templates') that can be used for writing a message. You can edit an existing template to create a new template.

Smileys (Menu 01-8)

You can edit and store the smileys such as ":-)", and use them in compiling messages.

Delete messages (Menu 01-9)

In the standby mode, press **Menu** and select *Messages* and *Delete messages*. You can choose to erase all messages with *All read*, *Inbox*, *Outbox*.

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Select	to
All read	delete all messages in *Outbox* and the read messages in *Inbox* are deleted.
Inbox	delete the read messages in this folder.
Outbox	delete all messages in this folder.

Message settings (Menu 01–10)

The phone offers two kinds of message settings: settings specific to each setting group ('set') and settings common to all text messages.

Profile1 (Menu 01–10–1) [1]

A profile is a collection of settings needed for sending text and picture messages.

Each set has the following settings: *Message centre number*, *Messages sent as*, *Message validity*, and *Rename sending profile*. Please contact your service provider for more information of these settings. You need the message centre number to send text and picture messages. You may obtain this number from your service provider.

Common (Menu 01–10–2) [2]

The settings in this submenu apply to all text messages that you send, irrespective of the chosen set. The available settings are: *Delivery reports* (whether you need a delivery report or not each time you send a message), *Reply via same centre* (whether you want to reply a received message through the same message centre or not. This is a Network Service).

Info service (Menu 01–11)

With this Network Service you may be able to receive messages on various topics from the network. For details, contact your service provider.

Voice mailbox number (Menu 01–12)

You can save and change the phone number of your voice mailbox (Network Service) here.

1. The total number of sets depends on how many sets your SIM card offers.
2. The shortcut number of this menu depends on the number of sets available. Here it is assumed that only one set is available.

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Service command editor (Menu 01-13)

You can send service requests to your service provider (Network Service). Key in the desired characters. Press and hold # to switch between letters and numbers. Press **Send** to send the request.

■ Call register (Menu 2)

In this menu you can view the phone numbers registered by the phone and the approximate length and cost of your calls (Network Services). You may also view and adjust the settings of a prepaid SIM card (Network Services).

The phone registers missed and received calls if it is switched on and within the network's service area, and if the network supports these functions.

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

When you enter the *Missed calls*, *Received calls* or *Dialled numbers* menu, press or to scroll. Press to call the registered phone number. Press **Options**, you can choose to view the time of the call, edit or view the registered phone number, add it to the phone book, or delete it from the list. You can also send a text message (*Send message*) to the number.

Select	to
Missed calls	show up to 10 registered phone numbers from which somebody has tried to call you with no success.
Received calls	show up to 10 registered phone numbers from which you have accepted a call
Dialled numbers	show up to 10 phone numbers you have called or attempted to call
Delete recent call lists	delete all the phone numbers and names from menus 2-1 to 2-3.
Call duration	show the approximate duration of your outgoing and incoming calls. You can reset these call timers by selecting *Clear timers* (Menu 2-5-5).
Call costs	show the approximate cost of your last call or all calls in terms of units specified within the *Show costs in* function (Menu 2-7-2).

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Select	to
Call cost settings	adjust call cost settings. With the *Call cost limit* function you can limit the call costs to the desired amount of charging units or units of currency (Network Service). With the *Show costs in* function you can select the units in which the phone shows the remaining talk-time (contact your service provider for charging unit prices). Note that when no more charging or currency units are left, only calls to the emergency number 112 may be possible.
Prepaid credit	view the status of the prepaid credits (Network Service). When using a prepaid SIM card, you can make calls only when there are enough credit units on the SIM card. Options: *Credit info display* (show or hide remaining units in standby mode), *Credit available* (amount of remaining units), *Last event costs*, *Recharge status*.

Note: When no more charging units or currency units are left, calls may be possible to only the emergency number programmed into your phone (e.g. 112 or other official emergency number).

Profiles (Menu 3)

You can set all the phone tones to function in the desired manner by selecting the desired setting group ('profile').

Activating a profile and changing its settings

1. In the *Profiles* menu, scroll to the desired profile and press **Select**.
2. To use the selected profile, select *Activate*.

   To change the settings of the selected profile, select *Personalise*.
3. If you selected *Personalise*, scroll to one of the following settings and press **Select**: *Ringing tone*, *Ringing volume*, *Incoming call alert*, *Message alert tone*, *Keypad tones*, *Warning tones*, *Vibrating alert*, *Rhythmic backlight alert*, *Screen saver*, and *Rename* (not available under *General*).
4. Scroll to the desired option and press **OK**.

You can also change the settings of the currently selected profile in *Tone settings* (Menu 4-1), see page 20.

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Settings (Menu 4)

In this menu you can adjust various settings of the phone. You can also reset some menu settings to their default values by choosing *Restore factory settings*.

Tone settings (Menu 4–1)

In this menu you can change the settings of the currently selected profile by adjusting the following settings: *Ringing tone*, *Ringing volume*, *Incoming call alert*, *Message alert tone*, *Keypad tones*, *Warning tones*, *Vibrating alert*, *Rhythmic backlight alert* and *Screen saver*.

- *Rhythmic backlight alert*: After you set this option on, whenever you receive a message or incoming call, the lights of the phone will flash following the rhythm of the current SMS alert tone, or the current incoming call alert tone.

Call settings (Menu 4–2)

Select	to
Call divert	divert your incoming calls to your voice mailbox or some other phone number (Network Service). 1. Select the divert option, and press **Select**. For example, select *Divert if busy* to divert the calls when you are on a call or when you reject a call. Several divert options may be active at the same time. When *Divert all voice calls* is activated, ⮕ is shown on the display in standby mode. 2. Set the selected option on (*Activate*) or off (*Cancel*), check whether the option is activated by selecting *Check status*, or specify a delay for certain diverts in *Set delay* (not available for all divert options). Note if you have set the *Call barring service* of incoming calls to on, you cannot divert incoming calls. see "call barring service" one page 23.
Automatic redial	set your phone to make up to ten attempts to connect the call after an unsuccessful call attempt.
Speed dialling	turn on or off speed dialling. you can dial the names and phone numbers assigned to the speed dial keys 2 abc to wxyz9 by pressing and holding the corresponding key.

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Select	to
Call waiting service	turn on or off the network notification of a new incoming call while you have a call in progress. (Network Service).
Send my caller identity	set your phone number to be displayed by choosing *On* or hidden by choosing *Off* from the person you are calling (Network Service). When you select *Preset*, the setting agreed with your service provider is used.
Line for outgoing calls	select the phone line 1 or 2 for making calls, or prevent line selection, if supported by your SIM card. (Network Service).

Phone settings (Menu 4-3)

Select	to
Language	select the language for the display texts.
Cell info display	set the phone to indicate when it is used in a cellular network based on Micro Cellular Network (MCN) technology (Network Service). Using MCN may affect pricing, contact your service provider for more information.
Welcome note	key in a message which will show briefly on the display when the phone is switched on.
Network selection	set the phone to automatically select a cellular network available in your area, or you may select the desired network manually. The network you select must have a roaming agreement with your home network.
Confirm SIM service actions	set the phone to show or hide confirmation messages when you use the SIM card services (see page 29).

Time and date settings (Menu 4-4)

Select	to
Clock	set the phone to show the current time in standby mode, adjust the time, and select the 12-hour or 24-hour time format. If the battery is removed from the phone or it has been drained for a longer period, you may need to set the time again
Date setting	set the correct date. If the battery is removed from the phone, you may need to set the date again.

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Select	to
Auto update of date & time	use this Network Service to update the clock in your phone in accordance with the current time zone. Note that the functions related to time (for example alarm clock) will be affected if you use this service.

Keyguard settings (Menu 4–5)

You can activate automatic keypad lock so that you do not have to do it manually everytime. The automatic key guard activates when the phone is in standby mode and the selected time delay expires.

To activate automatic keylock:

1. In standby mode, press **Menu**, select **Settings** and *Keyguard settings*. Enter *Automatic keyguard* by pressing **Select**, and choose *On*.
2. Key in the time in minutes and seconds after *Set delay:* appears on the display. The maximum value for the delay is 59 minutes 59 seconds and the minimum is 10 seconds.

Note: When the Keypad lock is on, calls may be possible to the emergency number programmed into your phone, (e.g. 112 or other official number).

To activate keyguard code:

1. Enter *Keyguard code* by pressing **Select**.
2. Key in the security code.
3. Choose *On*.

After you activate the keyguard code, you will be asked to input the security code each time you try to unlock the keypad.

Accessory settings (Menu 4–6)

The accessory settings menu is shown only if the phone is or has been connected to a compatiable accessory such as the headsets, mobile inductive loopset LPS-3.

Press **Menu**, select *Settings* and *Accessory settings*. Select *Headset*, *Handsfree* or *Loopset*.

Select	to
Default profile	set the profile you want to be automatically activated when you connect the selected accessory. You can select another profile while the accessory is connected.

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Select	to
Automatic answer	set the phone to automatically answer an incoming call after five seconds. If the *Incoming call alert* is set to *Beep once* or *Off*, automatic answer will not be used.
Lights	set the lights of the display and keypad permanently on, choose *On*. Select *Automatic* to set the lights on for 15 seconds after a keypress. The *Lights* option is available only when *Handsfree* is selected. This function is only available in *Handsfree*.

Security settings (Menu 4-7)

Note: When security features, which restrict calls, are in use (call barring, closed user group and fixed dialling), calls may be possible to certain emergency numbers in some networks (e.g. 112 or other official emergency number).

Select	to
PIN code request	set your phone to ask for the PIN code of the SIM card when the phone is switched on. Some SIM cards do not allow turning off this function.
Call barring service	restrict the making and receiving of calls with your phone. Select one of the barring options and set the option on (*Activate*) or off (*Cancel*). Check whether a service is activated by choosing *Check status*. (Network Service).
Fixed dialling	restrict your outgoing calls to selected phone numbers, if allowed by your SIM card.
Closed user group	specify a group of people whom you can call and who can call you. (Network Service).
Security level	set *Security level* to *Phone*, the phone asks for the security code at start-up if the SIM card inserted is not the one it last used. Or set *Security level* to *Memory*, the security code is required when you select the phone's internal phone book. The security code is also required for using some functions, for example, to clear the phone book or to restore the factory settings. Note that when you change the security level, all the recent calls lists including missed calls (Menu 2-1), received calls (Menu 2-2) and dialled numbers (Menu 2-3), are cleared.

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Select	to
Change of access codes	change the security code, PIN code, PIN2 code, or barring password. These codes can include the numbers 0 to 9 only. Avoid using access codes similar to the emergency numbers, such as 112, to prevent accidental dialling of the emergency number.

Restore factory settings (Menu 4-8)

You can reset the menu settings to their original values. This function has no effect, for example, on the names and phone numbers in the phone book.

■ Alarm clock (Menu 5)

You can set the alarm to sound at the desired time just once, or repeatedly, for example every working day.

When alarm sounds, you can stop the alarm by pressing **Stop**. If you press **Snooze**, the alarm stops and rings again in five minutes. If the alarm sounds for one minute, the alarm will stop and sound again after about five minutes. You can snooze up to 3 times.

If the alarm time is reached while the phone is switched off, the phone switches itself on and starts sounding the alarm tone. If you press **Stop**, the phone asks whether you want to activate the phone for calls. Press **No** to switch off the phone or **Yes** to make and receive calls.

Note: Do not press **Yes** when wireless phone use is prohibited or when it may cause interference or danger.

■ Reminders (Menu 6)

With this memory aid you can save short text notes with an alarm. The alarm is activated when the set date and time is reached.

Note: 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.

Note the alarm will not be activated if the phone is turned of when the set date and time is reached.

Scroll to one of the following functions and press **Select**:

Select	to
Add new	add new reminders

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Select	to
View all	show all the reminders. You can browse through the notes with ⌄ or ⌃. Press **Options** for the following: *Delete*, *Edit*, *Send* (sends the note without alarm as a text message to a compatible phone).This menu item will not be available unless you have already stored reminders.
Delete	delete the notes one by one or all at once.This menu item will not be available unless you have already stored reminders.

When the reminder time is reached, you may stop the alarm by pressing **OK**. If you press **Snooze**, the phone alarms again in about ten minutes.

■ Games (Menu 7)

The phone offers you some games to play, each game is provided with a brief help text.

Note: 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.

Adjusting common game settings

Scroll to *Settings* and press **Select**. Scroll to the desired setting and press **Select**.

You can set the sounds, lights, and vibrations (*Shakes*). Note that when the *Warning tones* (Menu 4-1-6) function is off, there may be no sound even if *Game sounds* function is on; and when the *Vibrating alert* (Menu 4-1-7) function is off, the phone does not vibrate even if the *Shakes* function is on.

■ Extras (Menu 8)

Note: 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.

Calculator (Menu 8-1)

The phone is provided with a simple calculator which can also be used for rough currency conversions. To access this menu: Press **Menu** in standby mode, and select *Extras* and *Calculator*.

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

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Making a calculation

- The keys 0 to 9 insert a digit. # inserts a decimal point. Press **Clear** to delete the last digit. To change the sign, press **Options** and select *Change sign*.
- Press * once for "+", twice for "-", three times for "*" and four times for "/".
- To get the result, press **Options** and select *Equals*Press and hold **Clear** to clear the display for a new calculation.

Making a currency conversion

1. Set the exchange rate: Press **Options**, select *Exchange rate*, choose *Foreign unit expressed in domestic units* or *Domestic unit expressed in foreign units*, key in the value (press # for a decimal point), and press **OK**.
2. To make the conversion: Key in the currency amount to be converted, press **Options**, and select *In domestic* or *In foreign*.

Stopwatch (Menu 8-2)

You can measure time and record split times or lap times, for example, in different sports**.** To access this menu: Press **Menu** in standby mode, and select *Extras* and *Stopwatch*.

Note that running the stopwatch consumes battery. Be careful not to let it run unintentionally in the background.

Select	to
Split timing or *Lap timing*,	recording split or lap times. Select *Split timing* or *Lap timing*, and press **Start**. Press **Split** to record a split time, **Lap** to record a lap time or **Stop** to finish timing. You can scroll through the recorded times shown below the overall time. When the timing is stopped, you can press **Options** for *Start* (split times only), *Save*, or *Reset*. If you select *Start*, timing continues from the previously timed event. If you select *Reset*, the split or lap times are reset.
Continue	view the timing when the stopwatch has been set to run in the background (press call when the time is running).When the stopwatch is on, is shown in standby mode.
View times	view the previously saved times.
Delete times	delete the previously saved times.

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Countdown timer (Menu 8-3)

You can set the alarm to sound after a period of lapsed time.

Key in the alarm time and press **Start**. In this menu you can also choose to change the lapsed time and stop the timer.

When the timer is running, ⏲ is shown in standby mode.

When the alarm time is reached, the phone sounds a tone and flashes the related text. Press any key to stop the alarm. Note that this alarm will not be activated if the phone is turned off.

Picture editor (Menu 8-4)

You can use this function to create new pictures or modify existing pictures and save them in the phone.

Select	to
Create new	create a new picture. To draw the picture you need to choose the format of the picture: *Picture msg.* or *Clip-art*. Different formats are of different sizes.See "Drawing the picture" on page 27.
Edit existing	modify an existing picture. You may also edit a picture from *Picture messages* (Menu 01-5) by chooseing *Edit picture* from the options list.
Continue	resume drawing by if your drawing process was interrupted by an incoming call, for example, or by pressing [phone].

Drawing the picture

A "pen" is used together with the cursor to draw the picture. The pen controls whether you want to draw (*Pen on*,) or not (*Pen off*,). Move the cursor in the *Pen on* state to draw the picture. Move the cursor in the *Pen off* state to navigate the picture.

Press [down] to switch to *Pen on*, and press [up] to switch to *Pen off*. You may also press **Options**, and choose *Pen off* or *Pen on* from the list.

The *Colour* controls whether you want the line to be *Black* ( ), *White* ( ), or *Dotted* ( ).

You can quickly switch between the colours by pressing [#]. You can also press **Options**, select *Colour*, and then make your choice.

The centre of the cursor shows the actual colour of the pixel beneath. Press [5 jkl] to switch the current pixel colour between black and white without changing the pen state.

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Cursor movement: You can move the cursor by using the number keys. Respectively, 2 abc and 8 tuv correspond to up and down; 4 ghi and mno 6 correspond to left and right; while 1 ao , def 3 , 7 pqrs and wxyz 9 correspond to the four diagonal directions.

Press the corresponding number key once and the cursor moves one pixel. To move the cursor continuously, press and hold the corresponding number key.

Drawing options

Press **Options** during the drawing process, you can get the following options in addition to the pen state and colour choices items mentioned previously:

Select	to
Insert	choose to insert *Line*, *Rectangle*, *Circle*, *Text* and *Clip-art* in your picture. Press **Insert** to insert the objects you want. The text cannot be edited after it is inserted.
Fill	fill the enclosed area, for example a circle, with the selected colour. Move the cursor to the desired area and press **Fill**.
Clear all	clear the current picture. You will be alerted with *Clear picture?* Press **OK** to confirm.
Invert colours	convert the black pixels of the picture to white, and white ones to black.
Save as	save picture message as clip art, or vice versa.
Save	save the current picture.
Exit	exit the picture being edited and save the current state of the picture. You can choose *Continue* to modify this picture the next time you enter the picture editor.
Undo	undo the previous operation if it is *Insert*, *Fill*, *Invert colours* or *Clear all*.

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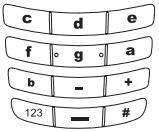
Composer (Menu 8-5)



You can create your own ringing tones with this menu function. Select the tone that you want to edit and key in the notes. For example, press 4 ghi for note **f**. The notes are mapped to keys as illustrated in the figure here.

8 tuv shortens (-) and wxyz9 lengthens (+) the duration of the note or rest. 0 inserts a rest. * + sets the octave. # makes the note sharp (not available for notes **e** and **b**). and move the cursor left or right. Press **Clear** to delete a note or rest to the left of the cursor. You are allowed to key in maximum 50 notes in one tone.

Chinese lunar calendar (Menu 8-6)

When you enter this menu, the solar date, as well as the lunar information, such as lunar year, lunar date and "Jieqi" if available, are presented on the display.

You can browse the lunar calendar using the scroll keys.

To check the lunar information of a certain solar date, press **Search**. Input the new date in the query window and press OK. The date you enter should be between 2000 and 2090. Press **OK**, and the lunar information for the date will be presented.

■ SIM services (Menu 9)

This menu is shown only if your SIM card provides additional services. The name and contents of this menu depend on the services available.

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

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5. Battery information

Charging and Discharging

Your phone is powered by a rechargeable battery.

Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles!

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

Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer. Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused a fully charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge.

Use the battery only for its intended purpose.

Never use any charger or battery which is damaged.

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 battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire!

Dispose of batteries according to local regulations (e.g. recycling). Do not dispose as household waste.

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6. Genuine Accessories

A new extensive range of accessories is available for your phone. Select the accessories which accommodate your specific communication needs.

Some of the accessories are described in detail below.

For availability of the accessories, please check with your local dealer. A few practical rules for accessories operation:

- Keep the accessories out of small children's reach.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that all mobile phone equipment in a vehicle is mounted and operating properly.

Use only batteries, chargers and accessories approved by the phone manufacturer. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

■ Battery

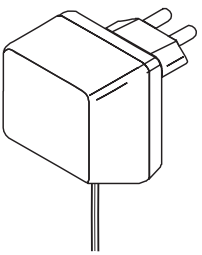
Type	Tech	Capacity	Talktime	Standby
BLD-3	Li-Ion	780 mAh	up to 2-3 hrs 20 min	up to 50 -150 hrs

■ Indoor

Standard Charger (ACP-7)

Small, lightweight and durable charger ACP-7 provides and easy and convenient way to charge the phone. It is easy to connect to phone or desktop stand.

Note: The plug types vary according to different markets.



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Indoor and Vehicle

Personal Headset Kit (HDC-5)

The compact and functional personal Handsfree Kit with Remote Control. By using the remote control option, you can answer and end calls by pressing the button on the microphone part of the Personal Handsfree.

■ Vehicle

Mobile Charger (LCH-9)

The multi-voltage Mobile Charger, LCH-9, to keep your phone ready for use when you travel.

A green light indicates that the Mobile Charger is ready for charging. Check the charging status on the phone display. The input voltage can be 12 or 24 V DC, negative grounding.

Charging with the Mobile Charger when the car engine is not running may cause the battery of your car to drain. Note also that in some cars the cigarette lighter plug is not provided with electricity if the ignition is switched off. Verify that the green LED light is on.

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7. Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not attempt to open the phone. Non-expert handling may damage it.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.

All of the above suggestions apply equally to your phone, battery, charger or any accessory. If any of them is not working properly, take it to your nearest qualified service facility. The personnel there will assist you and, if necessary, arrange for service.

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8. Important Safety Information

Traffic Safety

Do not use a hand-held telephone while driving a vehicle. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

Remember road safety always comes first!

Operating environment

Remember to follow any special regulations 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.

Use the phone only in its normal operating positions.

Parts of the phone are magnetic. Metallic materials may be attracted to the phone, and persons with a hearing aid should not hold the phone to the ear with the hearing aid. Always secure the phone in its holder, because metallic materials may be attracted by the earpiece. Do not place credit cards or other magnetic storage media near the phone, because information stored on them may be erased.

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 handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.
Persons with pacemakers:

- Should always keep the phone more than 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 minimise 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 (e.g. electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

Switch your phone off in any facility where posted notices so require.

■ Potentially explosive atmospheres

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off the phone 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 liquified 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.

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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.

Using your phone while in the air is prohibited. 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 landing networks as well as user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore you should never rely solely upon any wireless phone for essential communications (e.g. medical emergencies).

Emergency calls may not be possible on all wireless phone networks or when certain Network Services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on. Check for adequate signal strength. Some networks may require that a valid SIM card is properly inserted in the phone.
2. Press as many times as needed (e.g. to exit a call, to exit a menu, etc.) to clear the display and ready the phone for calls.
3. Key in the emergency number for your present location (e.g. 112 or other official emergency number). Emergency numbers vary by location.
4. Press key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide and your local cellular service provider.

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

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Certification information (SAR)

THIS MODEL PHONE MEETS REQUIREMENTS FOR EXPOSURE TO RADIO WAVES

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radio frequency (RF) recommended by international guidelines (ICNIRP). These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The guidelines include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit stated in the international guidelines is 2.0 W/kg*. Tests for SAR are conducted using standard operating positions with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a base station, the lower the power output of the phone.

The highest SAR value for this model phone when tested for use at the ear is 0.55 W/kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the relevant international guidelines for RF exposure.

* The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of body tissue. The guidelines incorporate a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at www.nokia.com.

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