

# User's Guide for Nokia 5110

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Issue 8

# Smart Tips

These Smart Tips pages include some useful tips for efficient usage of your phone.  
For more detailed information, read through the owner's guide.

## Call Functions

### Making a Call

Key in the phone number, press the Navi Key  (**Call**).


### Answering a Call

Press the Navi Key  (**Answer**).


### Ending a Call

Press the Navi Key  (**End**).

### Clearing the Display

Press and hold .

### Rejecting a Call

Press  at an incoming call. (If the Divert when busy function is activated, rejecting an incoming call will also divert the call.)

### Redial



With display clear, press  to access the last dialled numbers.

### Adjusting the Earpiece Volume



Press  or  during a call.


## In-Call Options

### Entering the In-Call Options during a Call

Press , then press  (**Options**).





### Scrolling the In-Call Options

Use  or  to scroll the available options, e.g. **Hold**, **New call**, **End all calls**, **Phone book**.





Press  (**Select**).

## Phone Book Functions








### Quick Save (a Name & Number in Phone Book)

Key in the phone number, press  or  to change the Navi Key text to **Save**. Press  (**Save**). Key in the name and press  (**OK**).


### Quick Find (a Name & Number from Phone Book)

Press , (key in the first letter of the name), scroll with  or  to the desired name. Press and hold  to view the phone number.

### Storing a phone number for Speed Dial


Press , , use  and  to find **Speed Dials**, press  (**Select**), , find the desired name/phone number, press  (**OK**).

### Speed Dialling

Press a number key 1 – 9, press  (**Call**).


### One Touch Dialling

If the **Speed Dialling** function in menu is activated, press and hold a number key 2 – 9 for One Touch Dialling.

Press and hold  to dial the Voice Mailbox number. (The Voice Mailbox number has to be stored in the memory)

# Essential Shortcuts





## Locking the Keypad

Press  (**Menu**) then  (within 3 seconds)

## Unlocking the Keypad




Press  (**Unlock**) then 







## Quick Alert Settings

Press  quickly, use  and  to select the desired option, press  (**OK**).

## Writing & Sending a Message

Press  (**Menu**), , , key in a message,

(press  to change between upper and lower case characters, press and hold  for numbers, press  for special characters),

press  (**Options**), with **Send** selected, press  (**OK**), enter the phone number or search for it with  or  from Phone book, press  (**OK**). Press and hold  twice to clear the display.

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# For Your Safety



*Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this manual.*



## ROAD SAFETY COMES FIRST

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



## INTERFERENCE

All wireless phones may get interference which could affect performance.



## SWITCH OFF IN HOSPITALS

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



## SWITCH OFF IN AIRCRAFT

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



## SWITCH OFF WHEN REFUELING

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



## SWITCH OFF NEAR BLASTING

Don't use phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.



## USE SENSIBLY

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



## USE 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 (**Call**). To end a call press (**End**). To answer a call press (**Answer**).



## EMERGENCY CALLS

Ensure the phone is switched on and in service. Press and hold two times for several seconds, to clear the display. Enter the emergency number, then press (**Call**). Give your location. Do not end the call until told to do so.

# About Labels on your Phone

Your phone has labels on it. These are important for service and related purposes, so be careful not to lose the label or the information it contains (e.g. if you replace your phone's cover).

## Security Code

The factory setting for the security code is 12345. Change the code, see '[Security Settings – Change Access Codes](#)', and keep the new code secret and in a safe place, separate from the phone.

## Using This Guide

The Nokia 5110 wireless phone described in this guide is approved for use on the GSM network .

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.



# 1. Getting the Phone ready for Use

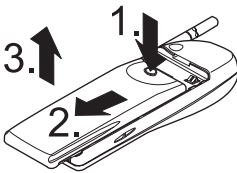
Before you can use your phone, you first need to

- install a valid miniature SIM card in the phone and
- charge the battery.

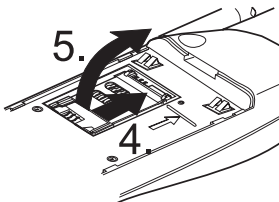
## Installing the SIM card

- Keep all miniature SIM cards out of small children's reach.
- The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting or removing the card.
- Before installing the SIM card, always make sure that the phone is switched off and then remove the battery.

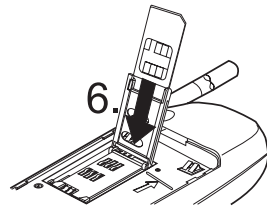
- 1 At the back of the phone, press the locking catch of the battery (1.), slide the battery downwards (2.) and lift it (3.) off the phone.



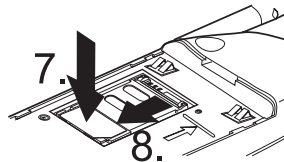
- 2 Open the cover for the SIM card reader by sliding it in the direction 'Open' (4.) and lifting it (5.).



- 3 Insert the SIM card (6.) ensuring that the bevelled corner is upwards and that the golden connectors on the card are facing the connectors on the phone.



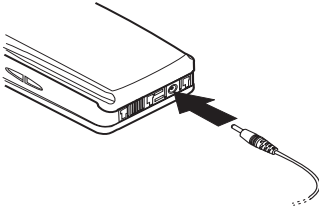
- 4 Close the cover of the SIM card reader (7.) and slide the card holder back to keep the card in its place (8.).



- 5 Attach the battery by placing it on the back of the phone and sliding it upwards until it locks into place.

# 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 and the battery indicator bar starts to scroll.

The **Charging** text is briefly displayed if the phone is switched on. The phone can be used while charging if the phone is on.



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

- 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 on.

Charging time depends on the charger and battery used. For example, charging a BMS-2S battery with the charger ACP-7 takes about four hours and using ACP-9 about 1 hour and 30 minutes.



**Note:** Charging times may be longer in countries where there is major fluctuation in the voltage.



**Note:** When charging BMS-2S, BMS-2, BMS-2V, BLS-2 for the first time with ACP-7, you must charge at least 12 hours.

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

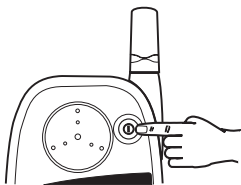
If **Not charging** is displayed, charging is suspended. Wait for a while, disconnect the charger, plug it in again and retry. If charging still fails, contact your dealer.

For more information, see [the 'Battery Information' chapter](#).

## 2. The Phone Is Ready for Use

### Switching the Phone On and Off

Press and hold the  key for a second.

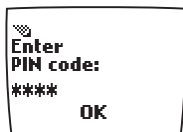



**Warning!** Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

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.

If the phone asks for a PIN code:

The PIN code is usually supplied with the SIM card.




- Key in the PIN code, which is displayed as asterisks \*, and press  (OK).

See also '[Reference Information - Access Codes](#)'.

If the phone asks for a security code:



See '[For Your Safety - Security Code](#)'.

- Key in the security code, which is displayed as asterisks \*, and press  (OK).

### The Display Indicators

The indicators described below are shown when the phone is ready for use, with no characters entered by the user. This is also called 'a clear display'.



OPER-  
ATOR

Indicates in which cellular network the phone is currently used.

P and bar

Shows the radio signal strength of the cellular network at your current location. The more bars are visible, the stronger is the signal.

T and bar

Shows how much power there is left in the battery. The more bars visible, the more power in the battery.

1 or 2

Indicates which phone line is currently selected for use.



The phone is waiting for you to enter a response.



Ringing tones have been set to **Silent**.





The alarm clock is set.

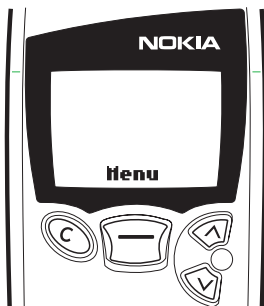




All calls diverted.

## Using the Keys

### Navi Key

The use of the phone is largely based on the Nokia Navi™ Key, , below the display. The function of this Nokia Navi™ Key, , varies according to the guiding text shown above the key on the display.




Throughout this user's guide, together with the Nokia Navi™ Key the relevant guiding text is also mentioned, e.g.  (**Menu**) or  (**Select**).


### Scroll Keys

Scroll keys are used to browse through menus, submenus and settings and to move the cursor to the right or left.




#### Tips:

With clear display, press  once to access the names & phone numbers stored in Phone Book.

With clear display, press  once to access the list of last dialled numbers.

During a call, press the keys to adjust the earpiece volume.

### The C Key

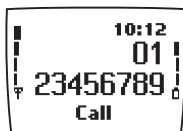
- Use  to delete a character to the left of the cursor,
- to clear all the characters keyed in from the display (press and hold),
- to return from a submenu to the previous menu level in the menu facility,
- to exit the menu facility,
- to reject an incoming call.



# 3. Basic Functions

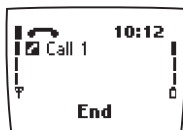
## Making a Call

- 1 Key in the phone number including the area code. The text **Menu** changes to **Call**.



Correct keying mistakes by pressing to delete the last character to the left.

- 2 Press (**Call**) and wait for the answer. The text **Call** changes to **End**.



- 3 Press (**End**) to finish the call (or to cancel the call attempt).

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

## International Calls

- 1 Press twice for the international prefix (+ character replaces the international access code).
- 2 Enter the country code, area code and the phone number.
- 3 To call the number, press (**Call**).

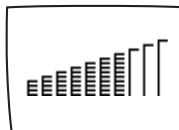


**Note:** When you are using the phone with the CARK-91 car kit, you can switch from handsfree mode to privacy mode by picking up the external handset HSU-1.

To switch back to handsfree, first press (**Menu**) and then put down the handset within 15 seconds.

## Adjusting the Earpiece Volume

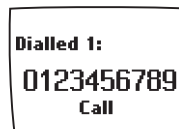
You can adjust the earpiece volume of the phone during a call. Press to increase and to decrease the volume level.



## Last Number Redial

The last eight 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 once to access the list of the last-dialled numbers.



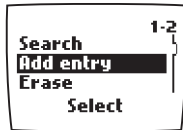
- 2 Use or to reach the desired number.
- 3 Press (**Call**).

# Storing a Name and Phone Number in Phone Book

- 1 Press (**Menu**) to access the menu facility.



- 2 With **Phone book** displayed, press (**Select**).
- 3 Use or to reach **Add entry** and press (**Select**).



**Name:** prompt will be displayed.

- 4 Key in the desired name as follows:

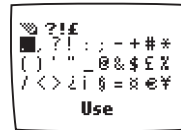
Press the key labelled with the character you want: Once for the first character, twice (before the cursor appears) for the second and so on.

The available character set depends on the language selected in menu 4-2-1.

- Press a key - repeatedly to find characters, e. g. for characters ., ? ! - & t and gives a space,
- switches between upper and lower case characters. The **ABC** or **abc** indicator is shown on the display respectively.
- Press and hold to switch between characters and numbers. The **ABC** (**abc**)

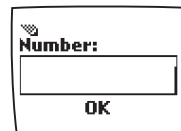
or **123** indicator is shown on the display respectively.

- You can add a number also by pressing and holding the respective number key for a second.
- When the flashing cursor appears, you can enter the next character.
- Press or to move the cursor.
- Press to bring up a list of special characters. The **? ! £** indicator is shown.



Use or to reach the desired character and press (**Use**) to add it in the name.

- 5 When you have written the name, press (**OK**).



**Number:** prompt will be displayed.

- 6 Key in (the country code, if necessary), area code and phone number.



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

- 7 Press (**OK**). The name and phone number are stored in Phone book.

**Tip: Quick Save**

With the display clear, key in the phone number, press or to change the Navi Key text to **Save** and press (**Save**). Key in the name and press (**OK**).

## Making a Call Using the Memory

- 1 Press (**Menu**).
- 2 With **Phone book** displayed, press (**Select**).
- 3 Press (**Select**) to choose **Search**.
- 4 Key in the first letter(s) of the name and press (**OK**).

You can skip this step if you like.

- 5 Use and to reach the desired name. You can check the phone number by pressing and holding (**#**).
- 6 Press (**Call**).

**Tip: A quick way to access the Phone Book**

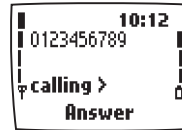
With the display clear, press (**#**). The first name (and phone number) in phone book will be displayed.



**Tip:** The names and phone numbers assigned to the speed dial keys 1 to 9 can be speed dialled via the number keys (**1**) to (**9**).

## Receiving a Call

When somebody is calling you, the phone will ring and flash the caller's name or phone number or the text **Call**.



- To answer the call, press (**Answer**).



**Tip:** To reject an incoming call, press (**C**). If the **Divert** when busy function is activated to divert the calls e.g. to your voice mailbox, rejecting an incoming call will also divert the call. See '[Call Divert \(menu 5\)](#)'.



**Note:** If more than one name is found in the phone book with the same last seven digits as the caller's phone number, only the caller's phone number will be displayed, if available.

# 4. Other Essential Functions

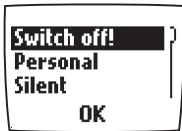
## Selecting a Ringing Tone

- 1 Press (**Menu**).
- 2 Use or to reach **Tones** and press (**Select**).
- 3 Use or to reach **Ringing tone** and press (**Select**).
- 4 Use or to reach the ringing tone you prefer. The phone gives you a ringing sample. Press (**OK**) to select it.
- 5 Press and hold to exit the menu.

## Settings for Desired Usage Situations (Quick alert settings)

Adjust the tones including e.g. ringing tone, key-pad tones, warning tones, for different operating situations. All you need to do is select the desired option from the available list, e.g. **Loud** for outdoor usage of the phone.

- 1 With the display clear, press the power key quickly.



- 2 Use or to reach the desired option:  
**Switch off!** turns off the phone.  
**Personal** is the default setting using the tone settings selected in **Tones** menu.  
**Silent** no sound alert will be heard.

**Discreet** a short beep sound is heard as ringing or message alert tone.

**Loud** call alert tone is **ringing** and e.g. the ringing volume is loudest.

- 3 Press (**OK**) to select the option.



**Tip:** You can also use following short-cuts:

- 2abc** for **Personal**
- 3def** for **Silent**
- 4ghi** for **Discreet**
- 5jkl** for **Loud**



**Note:** When you change the settings in the **Tones** menu, the **Personal** option is automatically reset.



**Note:** When the phone is connected to the CARK-91 car kit or HDC-9 headset, this function is not available.

## Voice Messages

The network may offer you a voice mailbox service. You can divert your calls to the voice mailbox and the callers can leave you messages.

The network informs you when you have a voice message waiting. Call to the voice mailbox number and listen to the message(s).


- 1 With clear display, press and hold for a second to call your voice mailbox number.

If the phone asks for the voice mailbox number, key it in and press (**OK**). See also **'Voice Mailbox Number'**, menu 2-6. You will obtain your voice mailbox number from your service provider upon subscription to the voice mailbox service.

- 2 Listen to the messages. End the call by pressing (**End**).





**Note:** If the Navi key text **Listen** is available, press  (**Listen**) to call your voice mailbox.

## Text Messages











You can read and write short text messages of up to 160 characters in length.

Before you can send any messages, you need to store the number of your message centre in the memory. It will remain unchanged until replaced. You will obtain the number from your service provider upon subscription to the Short Message Service (SMS). See the section Message Settings.





Make sure before sending a text message that the receiving phone is provided with SMS capability.




The capacity of the SIM card to store text messages may vary depending on the SIM card.

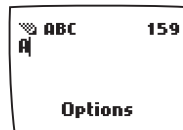
## Read Messages









- 1 When you have received an SMS message, the text **...Messages(s) Received** and the  indicator are displayed. Press  (**Read**).
- 2 Use  or  to reach the desired message and press  (**Read**).
- 3 While reading a message, use  or  to browse through the message. Press  (**Options**) for available options. Press  quickly to exit the message.
- 4 Press and hold  for a second to exit the menu.

## Writing and Sending a Message

- 1 Press  (**Menu**).
- 2 Use  or  to reach the menu function **Messages** and press  (**Select**).



- 3 Use  or  to reach **Write messages** and press  (**Select**).
- 4 Key in the message. For information on how to use the keys for writing, see '**Storing a Name and Phone Number in Phone book**'.

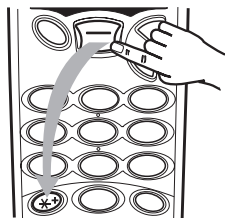



- 5 When you have finished the writing, press  (**Options**).
- 6 Select **Send** and press  (**OK**).
- 7 Key in the recipient's phone number or press  (**Search**) and use  or  to search for it from Phone Book and press  (**OK**).
- 8 Press  (**OK**) to send the message.
- 9 Press and hold  twice to exit the menu.

## Keypad Lock


The keypad lock prevents keys from being accidentally pressed when, for example, the phone is in your pocket or handbag.

- To lock the keypad, within three seconds first press  (**Menu**) and then .



When the keypad is locked, the indicator  is shown.

- To unlock the keypad, first press  (**Un-lock**) and then .

- When the keypad is locked, you can answer a call by pressing  (**Answer**).




**Note:** When the keypad is locked, calls may be possible to the emergency number programmed into your phone (e.g. 112 or other official emergency number). The number is displayed only when all the digits have been keyed in.

# 5. Using the Menu




The phone allows you to alter and view the settings of the many functions and options that are listed in the menus and submenus.

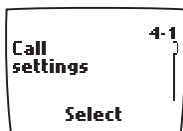
The menus and submenus can be accessed by scrolling or using the appropriate shortcut.




## Accessing a Menu Function by Scrolling

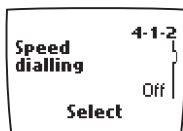
- 1 To access the menu facility, press  (**Menu**).





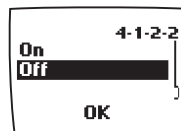
- 2 Press  or  to reach the desired main menu, e.g. **Settings**.
- 3 Press  (**Select**) to enter the menu.




- 4 If the menu contains any submenus, reach the desired one with  or .
- 5 Press  (**Select**) to enter the submenu (e.g. **Call Settings**). If the menu contains submenus, repeat steps 4 and 5.





- 6 Press  or  to reach the setting of your choice.



- 7 Press  (**OK**) to confirm the chosen setting.




**Tip:** You can return to the previous menu level by pressing  quickly or exit the menu without changing any settings by pressing and holding .

# Accessing a Menu Function by Its Shortcut

The menu items (menus, submenus and setting options) are numbered and can be accessed by their shortcut number. The shortcut index number is shown in the top right corner of the display.








- 1 Press  (**Menu**).
- 2 Key in quickly, within three seconds, the index number of the menu function you want to access.

Repeat this step for entering a submenu.

- 3 Key in within three seconds, the number of the desired setting option.

**For example, to set the keypad tones off:**

Press  (**Menu**), , , ,

 (**Menu**) for entering the menu,

 for **Tones**,

 for **Keypad Tones** and

 for keypad tones **Off**.

## Phone Book (Menu 1)



You can store phone numbers and their related names in the memory of your SIM card by using the Phone Book menu function.

The phone supports SIM cards which can store up to 250 phone numbers (of up to 30 digits) and names (of up to 16 characters). The length and also the amount of phone numbers and names which can be stored in the SIM card may vary depending on the SIM card.

### Recalling a Name and Phone Number from Phone Book

Use the menu function **Search** (menu 1-1) to see if the desired name and phone number are stored in the Phone Book.

See also 'Making a Call Using the Memory' in section '3. Basic Functions'.

### Service Numbers

This menu function allows you to easily call the service numbers of your service provider. This menu is shown only if there are service numbers stored on your SIM card.

Select **Service nos** (menu 1-2), scroll to the desired service number and press (**Call**) to call the number.

### Storing a Name and Phone Number in Phone Book

See the section 'Storing a Name and Phone Number in Phone Book' in section '3. Basic Functions'.

## Erasing a Name and Phone Number from Phone Book

In this menu (in N5110 menu 1-4) you can erase phone numbers and names from the Phone Book either **One by One**, or by selecting **Erase all** when all the names and numbers will be erased from the Phone Book at once.

### Editing a Name and Phone Number in Phone Book

In this menu (in N5110 menu 1-5) you can edit the names and phone numbers stored in Phone Book.

### Sending a Name and Phone Number from Phone Book ('Business card')

This menu function **Send entry** (in N5110 menu 1-6) allows you to send a person's contact information, name and phone number ('Business card'), from Phone Book to another phone.

#### To send the contact information

Select **Send entry**, scroll to the name & number you want to send and press (**Send**). Enter the recipient's phone number or search it from Phone Book. Press (**OK**) to send the information.

#### To receive the contact information

When the phone receives contact information, the text **Business card** received will be displayed. Press (**Options**) to show, save or discard the information and press (**OK**).

## Phone Book Options

### Setting the type of view for stored names and phone numbers

The phone can show the stored phone numbers and names in three different ways, types of view, (in N5110 menu 1-7-1). You can select **Name list** (shows three names at a time), **Name, number** (shows one name and phone number together) or **Large font** (shows one name at a time).

### Checking the Amount of Free Space in Phone Book

You can check how many names and phone numbers still can be stored and are currently stored in Phone Book (in N5110 menu 1-7-2).

## Assigning a Phone Number as a Speed Dial Number

You can assign nine phone numbers stored in Phone Book as speed dial numbers which can be dialled via the number keys **100** - **9999**.

Select the menu function **Speed Dials** (in N5110 menu 1-8). If no phone number is assigned to a key, press **Assign**.



**Note:** Assign is also shown when the phone has automatically assigned a phone number from the Phone Book to a speed dialling key.

Search for the desired name and/or phone number from Phone Book, and press **OK** to select it.

If a phone number is assigned to a key, you can view the number, change it or erase it by first pressing **Options**.


### To use the speed dial key



Press the desired speed dial key (**100** to **9999**) and press **Call** to make the call.

## Messages (menu 2)





### Read Messages

When you have received an SMS message, the text **...Messages(s) Received** is displayed and the  indicator is on. Press **Read** to view the message(s). To view the message later, enter the menu function **Inbox** (menu 2-1).


The messages in the Inbox are listed, the latest message is on the top of the list. Use  or  to reach the desired message and press **Read**.

While reading a message, press **Options** for available options, and press **OK** to select the desired option:

- **Erase**
- **Reply**
- **Edit**
- **Use Number** (lists the phone numbers found in the message) and
- **Forward** (to send the message further).
- In the **Details** option, use  or  to see details of the message, sender's name and phone number, message centre used for sending, reception date and time.

## Writing, Sending and Saving a Message

Within the **Write messages** menu (menu 2-3) you can write and edit text messages of up to 160 characters.

When you have finished the writing, press  (**Options**) for one of the options: **Send**, **Send by set** (sends the message by using a selected set), **Save** (stores the message in the Outbox folder (menu 2-2) for sending the message later) or **Clear screen** (removes all the characters in the message).

## Message Settings


### Set 1 (menus 2-4-1)<sup>1</sup>

A setting group or "set" is a collection of settings needed for sending text messages.

You can, for example, send a text message as a fax, if supported by your service provider, by simply selecting the set in which you have pre-defined the proper settings for fax transmissions.

Each set has its own submenu:

- **Message centre number**

Stores the phone number of the message centre needed for sending text messages. You obtain this number from your service provider. Key in the phone number of the Message Centre or edit the existing one and press  (**OK**).

- **Message sent as**

You can request the network to convert your **Text** messages into **E-mail**, **Fax** or **Paging** format (network service).

In order to receive a converted message, the recipient must have an appropriate terminal device available.

- **Message validity**

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

### Common (menu 2-4- )<sup>2</sup>

- **Delivery reports**

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

- **Reply via same centre**

You can request the network to route the reply to your text message via your own message centre (network service).

## Info Service


This network service (also called Cell Broadcast) (menu 2-5) allows you to receive messages on various topics (such as weather or traffic conditions) from your service provider. For available topics and relevant topic numbers, contact your service provider.

By selecting **On**, you will receive messages on the active topics. You can edit the topic list, and mark the topics active or inactive.

**Topic Index** fetches a list of available topics from the network. By selecting **Topics**, you can **Add topic** in the topics list. Key in the topic number and name. You can also **Edit** or **Erase** the topic list.

Select **Language** to set the language for the messages. Only messages in the selected language are shown.

## Voice Mailbox Number

Within the menu **Voice Mailbox Number** (menu 2-6) you can store the number of your voice mailbox. Key in the number and press  (**OK**). The number will remain unchanged until replaced. You obtain this number from your service provider.

<sup>1</sup> The total number of sets depends on how many sets your SIM card offers.

<sup>2</sup> The shortcut number of this menu depends on the number of sets available.

# Call Register (menu 3)




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

The last five phone numbers from which somebody has tried to call you are stored in the phone's memory in Missed Calls list (menu 3-1).

In the options of the Missed Calls menu you can view the phone number, call the number, view the time of the missed call if the clock is set to the right time, and erase the phone number or save it in the Phone Book.



**Tip:** When a notice about missed calls appears on the display, press  (**List**) to view the list of missed calls phone numbers.

## Received Calls

The last five phone numbers from which you have received a call are stored in the phone's memory in Received Calls list (menu 3-2).

In the options of the Received Calls menu you can view the phone number, call the number, view the time of the received call if the clock is set to the right time, and erase the phone number or save it in the Phone Book.

## Dialled Numbers

The phone stores the last eight phone numbers that you called or attempted to call.

In the options of the Dialled Calls menu (menu 3-3) you can view the phone number, call the number, view the time of the call if the clock is set to the right time, and erase the phone number or save it in the Phone Book.

## Erasing Recent Call Lists

This menu function (menu 3-4) allows you to erase all the phone numbers and names in the Missed Calls, Received Calls and Dialled Calls lists.



**Note:** If a new SIM card, which is not recognised as an owner card, is inserted into the phone, the contents of the Missed Calls, Dialled Calls and Received Calls lists will be erased.

## Show Call Duration

You can use Show Call Duration menu (menu 3-5) to view the approximate duration of your outgoing and incoming calls in hours, minutes and seconds and to reset the call timers to zero.

Inserting a new SIM card does not clear the call timers.



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

## Show Call Costs

This network service allows you to check the approximate cost of your last call or all calls if the call cost service is supported by the network (menu 3-6). The costs are shown in terms of charging units. Call costs are shown separately for each SIM card.



**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.



## Call Cost Settings

### Call Costs' Limit

This network function allows you to set a cost limit for the calls with your SIM card (menu 3-7-1). You can make and receive charged calls as long as the set call cost limit is not exceeded. The limit can be set in specified number of charging units or units of the currency set within the Show Costs In menu.

Depending on the SIM card you may need the PIN2 code to set a call cost limit.

### Show Costs In

This network function allows you to select whether the call costs are displayed in terms of charging units or the desired currency (menu 3-7-2). Contact your service provider for charging unit prices.

Depending on the SIM card you may need the PIN2 code to select the currency or unit in Show Costs' In.

## Settings (menu 4)



## Call Settings

### Automatic Redial

When the Automatic Redial function (menu 4-1-1) is set on, your phone will make up to ten attempts to connect the call after an unsuccessful call attempt.

### Speed Dialling

When the Speed Dialling function (menu 4-1-2) is set to on, the names and phone numbers assigned to the speed dial keys (2abc) to (9wxyz) can be dialled by pressing and holding the corresponding number key.



**Note:** Pressing and holding (100) dials your voice mailbox number, not the speed dial number assigned to the key.

### Call Waiting Options

When this network service is activated (menu 4-1-3), the network will notify you of a new incoming call while you have a call in progress.

### Own Number Sending

This network service allows you to set whether your phone number is hidden or displayed to the person you are calling (menu 4-1-4). **Presets** resets the phone to the default setting, **On** or **Off**, that you have agreed upon with your service provider.

### Phone Line in Use

The SIM card may be used with two subscriber numbers, 'phone lines' (network service). You can select the desired line for making calls (menu 4-1-5). However, calls on both lines can be answered disregarding the selected line.

If you select line 2 and have not subscribed to this network service, you will not be able to make calls.

When you have prevented the line selection within the **Phone line change** menu, you cannot change the phone line.



**Tip:** With the display clear, you can switch from line to the other by pressing and holding (0##).

### Automatic Answer

This setting is available only when the phone is connected to the CARK-91 car kit or HDC-9 headset.

When this setting is **On**, your phone is set to automatically answer an incoming call after one ring. This function can be used when the car kit is equipped with ignition sense and ignition is switched on.

## Phone Settings

### Language

You can select which language your phone will use for all its display texts (menu 4-2-1). If the setting Automatic is selected, the phone will set the language according to the information in the SIM card used in the phone. English is used if the language on the SIM card is not found in the phone.

### Cell Info Display

Within this menu (menu 4-2-2) you can set the phone to indicate when it is used in a cellular network based on Micro Cellular Network (MCN) technology (network service).

### Welcome Note

This menu (menu 4-2-3) allows you to set the message which is shown when the phone is switched on.

### Network Selection

The network can be selected automatically or manually (in N5110 menu 4-2-4).

In automatic mode the phone automatically selects one of the cellular networks available in your area.

In manual mode the phone will show a list of available networks and you can select the desired network if this network has a roaming agreement with your home network operator. Otherwise the text **No Access** is displayed and another network must be selected. The phone will stay in manual mode until the automatic mode is selected or another SIM card is inserted in the phone.

### Lights

This setting is available only when the phone is connected to the CARK-91 car kit. It allows to set the display and keypad lights.

## Security Settings

Your phone is equipped with a versatile security system to prevent unauthorised use of the phone or the SIM card.

### PIN-Code Request

Within this menu (menu 4-3-1) you can set the phone to ask for the PIN code of your SIM card when the phone is switched on. You need the PIN code to set the request on.

Note that some SIM cards do not allow the PIN code request to be turned off.

### Fixed Dialling

You can restrict your outgoing calls to selected phone numbers, if this function is supported by your SIM card (menu 4-3-2). To save and edit numbers on the list, you need the PIN2 code.



**Note:** When fixed dialling is set on, calls may be possible to certain emergency numbers in some networks (e.g. 112 or other official emergency number).

### Closed User Group

This network service (menu 4-3-3) specifies the group of people whom you can call and who can call you. **Preset** resets the phone to use a user group the SIM card owner has agreed upon with the service provider.



**Note:** When calls are limited to Closed User Groups, calls may be possible to certain emergency numbers in some networks (e.g. 112 or other official emergency number).

### Phone Security

This menu (menu 4-3-4) allows you to set the phone security **on** to avoid unauthorised use of the phone. You need the security code to set the security.

When **on** is selected, the phone will ask for the security code whenever a new SIM card is inserted.



**Note:** When you change the security, all the recent calls lists are cleared.

## Change Access Codes

With this menu (menu 4-3-5) 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 to prevent accidental dialling of the emergency number.

## Restore Factory Settings

You can reset some of the menu settings to their original values (menu 4-4). The security code is needed for this function.

## Call Divert (menu 5)



The Call Divert network service allows you to divert the incoming calls to your voice mail (only voice calls) or to another phone number.

### The call divert modes available in N5110 are

- Divert all voice calls without ringing
- Divert when busy
- Divert when not answered
- Divert when the phone is off or no coverage.

Then you can **Activate**, **Cancel** or check **Status** of the selected mode. For some divert modes also **Set delay** is available.

- With **Cancel all diverts** you can set all diverts off.



**Tip!** If **Divert when busy** is activated, rejecting an incoming call will also divert the call.

## Games (menu 6)



In this menu you have three games, **Memory**, **Snake** and **Logic**. Select the desired game and then select **Instructions** to see how to play the game.

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

## Calculator (menu 7)



The phone is provided with a basic four function calculator which can also be used for rough currency conversions.

### Using the calculator

Enter the first numbers in the calculation using the **0** - **9** keys. Press **0#** for a period(.).




Press **\*** once (+) to add, twice (-) to subtract, three times (\*) to multiply and four times (/) to divide, or press **(Options)** to reach the desired function.


For a total, press **(Options)** and select **Equal** with **(OK)**. Press **C** to clear the display.



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

## Making a currency conversion

Press  (**Options**) and select **Exchange rate**. Choose either of the displayed options, **Foreign unit expressed as domestic units** or **Domestic unit expressed as foreign units**. Next, key in the exchange rate (press  for a period) and press  (**OK**).

**Make the conversion:** Key in the amount to be converted, press  (**Options**), and select **To domestic** or **To foreign**.

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

## Clock (menu 8)



### Alarm Clock

The phone can be set to alarm at a specified time (menu 8-1). The alarm clock uses the time format set for the clock, 12-hours or 24-hours.


You can switch the phone off and the alarm clock will still work.



In this menu you can set the alarm time or select **On** to change the alarm time or **Off** to turn off the alarm clock.

#### When the alarm time expires

The timer alert tone corresponds to the ringing volume setting. When the timer expires only a beep is heard

- if you have selected **Off** or **Beep once** in the **Tones** menu, or
- if you have selected the quick alert settings **Discreet** or **Silent**; see '[Settings for Desired Usage Situations](#)'.

When alerting also **ALARM!** is shown and the lights are flashing. If you let the phone alarm for a minute or if you press  (**Snooze**) the phone stops alarming for a few minutes and resumes thereafter.

Press any other key to stop the alert. If the phone is off, it will ask for network registration. Press  (**Yes**) to register or  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.

## Clock settings

The phone is provided with a real-time clock (menu 8-2). Although the phone has a power backup, you may need to set the time again when the phone's battery is flat or has been removed.

In this menu you can set the time display on or off, set the time or select the 12-hour or 24-hour time format.

## Tones (menu 9)



### Incoming Call Alert

This menu function (menu 9-1) allows you to select how the phone notifies you of an incoming call. Available options are **Ringing**, **Ascending**, **Ring once**, **Beep once**, or **Off** when no ringing tone will be heard.



**Note:** If the phone is set to **Silent**, no ringing tone, message alert tone, keypad tone or warning tone will be heard.

## Ringing Tone

You can select any of the ringing tone types available in menu 9-2.

## Ringling Volume

A ringing tone is heard when there is an incoming call. This menu function (menu 9-3) allows you to select any of the ringing volume levels available. The ringing tone level also affects the level of message alert tone.

## Message Alert Tone

You can also select an alert tone to indicate an incoming SMS message (menu 9-4).

## Keypad Tones

A tone is heard each time a key is pressed. You can set the keypad tone to off or select any of the three keypad tone levels available (menu 9-5).

## Warning and Game Tones

When this function is set on (menu 9-6), the notification tones (e.g. the battery low tone) of the phone will be sounded.



## Vibrating Alert

In this menu (menu 9-7) when the phone is provided with a special battery, you can set the phone to vibrate when a call comes in.


# 6. Reference Information

## In-Call Options

Your phone provides a number of control functions that you can use during a call. You cannot utilise each of these functions at all times. Only those functions which are available and allowed will be shown in the In-Call menu. Many of the In-Call options are network services.

While you have a call in progress and the Navi key text is **End**, press  to activate the text **Options**. Then press  (**Options**) to enter the In-Call menu.

The following In-Call options may be available:

Hold or Unhold	to hold or release a call
New Call	to make a call when you have a call in progress
Answer	to answer the incoming call
Reject	to reject the incoming call
Swap	to switch between the two calls
End this call	to end the active call
Send DTMF	to send DTMF tones
Send	to send the character string on the display to the network
End all calls	to end both calls
Phone book	to enter the Phone Book
To exit the In-Call menu, press  .	

## Access Codes

You can use the access codes described in this section to avoid unauthorised use of your phone and SIM card.

The access codes (except PUK and PUK2 codes) can be changed by using the menu 4-3-5. See the next section.

### Security Code (5 digits)

The security code can be used to avoid unauthorised use of your phone, see '[Phone Security](#)' ([menu 4-3-4](#)). The factory setting for the security code is 12345. Change the code, see '[Security settings - Change Access Codes](#)'. Keep the new code secret and in a safe place, separate from the phone.



**NOTE:** If you key in an incorrect security code five times in succession, the phone will not accept the correct code for the next five minutes.

### PIN Code (4 to 8 digits)

The PIN (Personal Identification Number) code protects your SIM card against unauthorised use. The PIN code is usually supplied with the SIM card.



**NOTE:** If you key in a wrong PIN code three times in succession, key in the PUK code and press **OK**. Key in a new PIN code and press **OK**. Key in the new code again and press **OK**.

### PIN2 Code (4 to 8 digits)

The PIN2 code, supplied with some SIM cards, is required to access some functions, such as charging unit counters. These functions are only available if supported by your SIM card.



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

## PUK Code (8 digits)

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

## PUK2 Code (8 digit)

The PUK2 code, supplied with some SIM cards, is required to change a blocked PIN2 code. If you lose the code, contact your service provider.

# Protection Cap of the Antenna Connector

At the back of the phone below the antenna there is a connector for an external antenna. The connector may be protected by a rubber cap. If it is, first remove the cap when connecting the external antenna. After removing the antenna, replace the cap.



**Note:** Keep the cap out of small children's reach.

# Battery Information

The following manufacturer-approved rechargeable batteries are available for your phone: NiMH batteries BMS-2S, BMS-2 and BMS-2V, and Li-Ion batteries BLS-2, BLS-2H, BLS-4 and BLS-5.

The approximate operation times for new batteries are:

## N5110

Talk time for the batteries BMS-2S, BMS-2, BMS-2V and BLS-2 is from 3 to 5 hours and for the battery BLS-4 from 5 to 8 hours.

## N5110

Standby time for the batteries BMS-2S, BMS-2, BMS-2V and BLS-2 is from 60 to 270 hours and for the battery BLS-4 from 100 to 450 hours.

## Charging and Discharging the Battery

- 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 stand-by time) is noticeably shorter than normal, it is time to buy a new battery.
- Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer.
- When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its life. If left unused a fully charged battery will discharge itself over time.
- For good operation times, discharge the NiMH battery from time to time by leaving your phone switched on until it turns itself off. 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.

### Using the Batteries

- Use the battery only for its intended purpose.
- Never use any charger or battery which is damaged or worn out.
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the back of the battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.
- Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 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).
- Do not dispose of batteries in a fire!



Batteries must be recycled or disposed of properly.

Must not be disposed of in municipal waste!

## Accessories and 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.

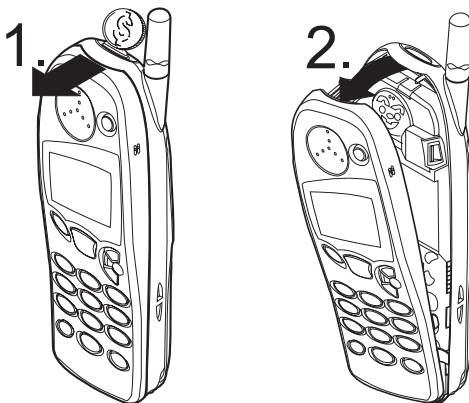
For availability of approved accessories, please check with your dealer.

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

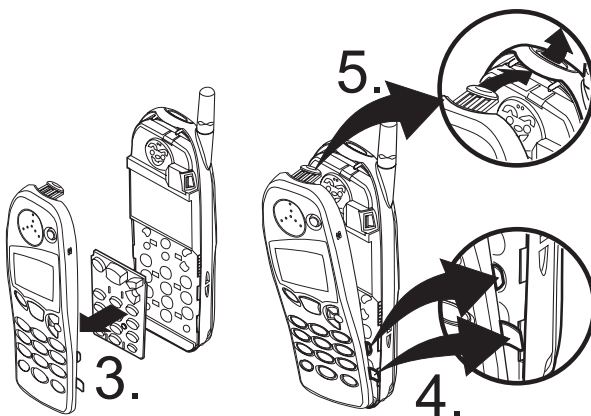


# Instructions for changing the Nokia Xpress-on™ colour cover

- Before changing the cover, always switch off the power and disconnect the phone from the charger or any other device.
- Always store the phone with cover attached.
- Read carefully the instructions in 'Care and Maintenance'.
- To remove the cover, press the locking catch of the cover for example with a coin.



- To replace the cover, first place and close the catches in the lower part of the cover into the corresponding holes of the phone and then gently close the whole cover.



# Care and Maintenance



Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years. When using your phone, battery, charger OR any 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. Unauthorised 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.

# 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.

## 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.

## 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 (e.g. 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 cellular service providers.

### To make an emergency call:

- 1 If the phone is not on, switch it on.  
Some networks may require that a valid SIM card is properly inserted in the phone.
- 2 Press and hold the  key two times for several seconds to 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 the  key (**Call**).

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

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

# Important User Information

This section explains how to deactivate the EFR CODEC should you find that it is difficult to make or receive calls when travelling and roaming onto another network.

## 1. Introduction

The Nokia 5110 (GSM) comes equipped the latest codec and audio technology for superior sound and voice quality.

Currently, there are three different codecs defined for GSM/PCN:

- full-rate (FR)
- enhanced full-rate (EFR)
- half-rate (HR)

The Nokia 5110 and 5130 phone can support all these codecs.

The FR codec is supported by all GSM and PCN cellular networks and phones.

The network automatically selects which codec is used, FR or EFR (if supported by the network).

The Nokia phone supplied within this sales package has the EFR codec activated to so that you can automatically enjoy the benefits of EFR if supported by your network operator. Currently only some networks support the EFR codec in addition to the FR codec.

## 2. Deactivating/Activating The EFR Codec

The Nokia N5110 fully meet and comply with all EFR codec and relevant compatibility specifications.

However, as a result of some networks not yet complying with the latest specifications you may find it impossible to make or receive calls, if the EFR codec is activated, e.g. when you are visiting or roaming in a foreign network.

If problems are encountered in making a call (with the display of "Check operator services" or another similar message), OR receiving calls, deactivating the EFR codec may resolve the problem. To deactivate or reactivate the EFR codec follow the instructions given in the next section.

Please note that there is no indication on the phone as to whether or not the EFR codec is activated or deactivated.

### a) To deactivate the EFR CODEC

With the display clear perform the following key press sequence:

#3370# or #EFR0#

i.e. press the "#" key, then the "3" key and so on...

### b) To activate the EFR CODEC


With the display clear perform the following key press sequence:


\*3370# or \*EFR0#

i.e. press the "\*" key, then the "3" key and so on...

### Notes to a) and b)

i) Immediately after pressing \*3370# (or #3370#) the phone will automatically power itself off and then on again – this is NORMAL and also serves to indicate that deactivation (or activation) has occurred. During the automatic power off/on sequence the LCD display will become clear, the back lights will switch off and then the display will come back on.

ii) If during activation/deactivation the wrong key is pressed, clear the wrong entry by pressing the  key.

iii) If at any time you choose to quit the process then press and hold the  key.

## 3. Suggested Tip

you may wish to store the above activation/deactivation sequences in the phonebook.

Name: EFR ON

Number: \*3370#

Name: EFR OFF

Number: #3370#

To save the activation sequence to the phonebook, the name **MUST** be entered first otherwise deactivation or activation of the EFR codec will occur.

# Genuine Accessories



A new extensive range of accessories are available for your phone. You can select the accessories that accommodates your specific communication needs.

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 cellular 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.**

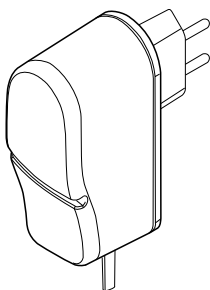
# BATTERIES

## Optional Batteries

Nokia 5110 operation times with different battery options are listed below.

Battery type	Talktime	Standby
Slim (900mAh Li-Ion) BLS-2	3hrs to 5hrs*	or 60hrs to 270hrs*
Standard (900AH NiMH) BMS-2/BMS-2S	3hrs to 5hrs*	or 60hrs to 270hrs*
Vibrating (900AH NiMH) BMS-2V	3hrs to 5hrs*	or 60hrs to 270hrs*
Extended(1500mAh Li-Ion) BLS-4	5hrs to 8hrs*	or 100hrs to 450hrs*

## INDOOR



### Fast & Light Charger (ACP-9)

Extremely light, the functionally designed Fast & Light Charger, ACP-9, charges your phone battery quickly. Plug the charger into a wall socket and insert the connector to the bottom of your phone.

The charging time is approximately 1 hour 30 minutes for BMS-2S. Check the charging status on the phone display. You can also use your phone while charging. The Fast & Light Charger can also be used with the Desktop Stand, DCH-9.

### Desktop Stand (DCH-9)

The Desktop Stand, DCH-9, provides mounting places for both the phone and a spare battery. Connect your charger to the back of the Desktop Stand, and then plug the charger into a wall outlet. Place your phone and/or spare battery in the stand to begin battery charging. The charging order is the phone battery first, and then the spare battery. Check the charging status of the phone battery on the phone display.

Compatible with all battery options, the Desktop Stand is used together with the Fast & Light Charger, ACP-9 or standard charger, ACP-7.

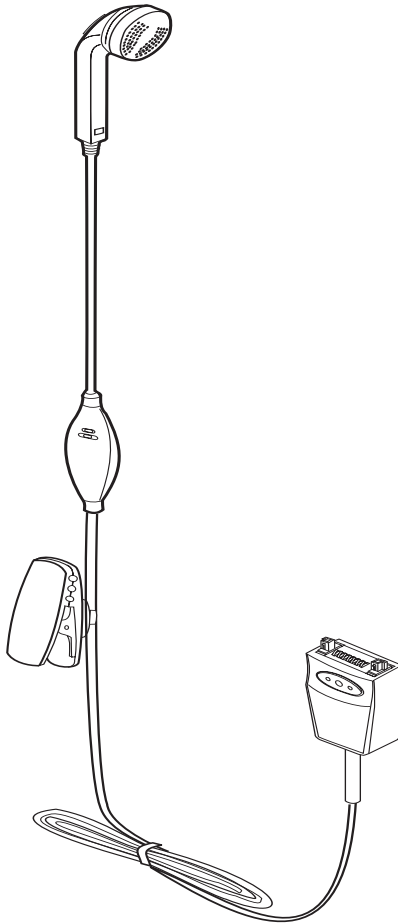
The stand is equipped with a LED indicator for the spare battery. A continuous red light indicates recharging, and green light indicates the spare battery is charged. Charge the battery until the light turns green.

**\* Operating times will vary depending on network and SIM card and your usage style.**

# INDOOR & VEHICLE

## Personal Handsfree Kit with Remote Control

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. A cost effective handsfree solution for indoor or outdoor use.





# VEHICLE

## Mobile Charger (LCH-9)

The multivoltage Mobile Charger, LCH-9, ensures your phone is always ready for use wherever you travel. This small charger's functional design fits most car lighters and interiors.

The charging time for the BMS-2S battery is about 1 hour 30 minutes, and you can use your phone freely during charging.

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.

Avoid prolonged charging with the Mobile Charger when the car engine is not running; this 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.

## Phone Holder (MBC-1)

Designed to fit and complement your car's interiors, the Phone Holder, MBC-1, holds your phone firmly in place.

You can easily place the phone into the holder with a hand.

Pressing the release button on either side of the holder loosens the bottom lock. You can now remove the phone from the holder and take it with you.

The Phone Holder is easy to install in a convenient location.

Always secure the phone in its holder. Do not place the phone on the passenger seat or in a place where it can break loose in a collision or sudden stop.

## Complete Handsfree Car Kit (CARK-91)

You may choose Complete Handsfree Car Kit to provide a convenient charging facility with an external antenna connection, handsfree capability, and excellent sound quality.

- \* Phone Holder, MCC-1, keeps your phone firmly in place. You can easily insert or remove the phone from the phone holder with one hand.
- \* The Handsfree Unit, HFU-2, with external speaker and HF-Microphone, HFM-8 offers you a seamless handsfree function.
- \* The External Antenna Connector provides optimum reception quality.
- \* Standard features include ignition sense, car radio mute and motorised antenna control.

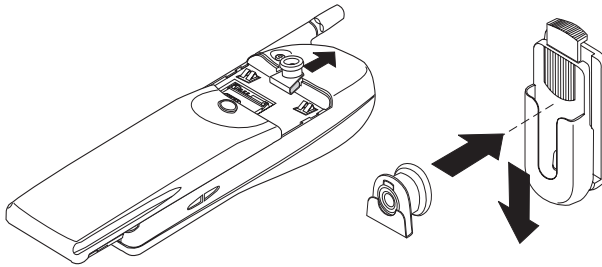
## Upgrade Car Kit (Cark 95)

An easy way to upgrade your car kit from the 8110, 8110i, 3810 or 3110 car kit (Cark-74)

- \* Phone Holder MCC-1, HFU-2 and mounting brackets are all that are required.
- \* All wiring, external microphone and speaker from the Cark-74 are compatible.

## BELT CLIP (BCH-12)

The fast and easy way to carry and use your phone.



For installation information, look at the above drawing.

## CELLULAR DATA

### Nokia Data Suite

Nokia Data Suite is a software based solution for cellular data communication.

It allows you to send and receive data using a PC running Windows 95.

Data Suite operates via your PC's serial communication port or via an infrared port.

The cable can be connected directly to your phone or to the external data cable (DAG-2) from the Complete Car Kit (Cark-91).