NOKIA

CONNECTING PEOPLE

# NOKIA 8890

User Guide

# Nokia 8890
# User Guide

Petitioner Samsung Ex-1011, 0002

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

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## FCC/Industry Canada Notice

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

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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# • For your safety

This section provides various safety guidelines. Read this information before using your mobile phone (which will now be referred to as "phone"). Failure to comply with these guidelines could prove either dangerous or illegal. For more detailed safety information, refer to "Important safety information" on page 104.

**Road safety comes first**
Don't use a phone while driving. Park the vehicle first.

**Switch off in hospitals**
Switch off your phone when you are in a hospital or when you are near medical equipment. Follow any regulations or rules that are in force.

**Switch off on aircraft**
Do *not* use phones on airplanes as this can cause interference with the navigational equipment. Also, the use of phones on airplanes is illegal.

**Switch off when refueling**
Do *not* use the phone at a refueling point or near fuel or chemicals of any kind.

**Switch off near blasting**
Do *not* use the phone where blasting is in progress. Observe restrictions and follow any regulations or rules that are in force.

**Interference**
All phones are susceptible to interference, which could affect performance. This could impede the making of an emergency call.

**Use sensibly**
Use *only* in the normal position (to ear). Avoid unnecessary contact with the antenna when the phone is on.

**Qualified service**
Only qualified service personnel can install or repair cellular phone equipment.



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**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**
Make sure the phone is switched on and in service. Enter the phone number, including the area code, then press . To end a call press . To answer a call press .

**Emergency calls**
Make sure the phone is switched on and in service. If the word **Clear** appears on the screen above the right selection key, press and hold it to clear the display. Enter the emergency number, then press . Give your location. Do *not* end the call until told to do so.

**Infrared precautions**
Do *not* point the infrared (IR) beam at anyone's eyes or allow it to interfere with other IR devices.

# • Your phone's label

If you remove your battery (refer to "Remove the battery" on page 11) you can find the phone's label on the back portion of the phone. This label includes various information about the phone, such as the model number.

If you ever have to call Nokia (refer to "Contacting Nokia" on page 8) or your service provider, you might be asked for this information. Therefore, do *not* remove the phone's label.



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# 1. Welcome

Congratulations on your purchase of a Nokia 8890 mobile phone. You are now on your way to using a new and exciting tool. However, before you use your phone, read this chapter. It provides information you need for using this guide and for contacting Nokia.

## • Using this guide

For clarity, this guide uses various icons and terms. These icons and terms are described in "About indicators and icons" on page 13 and "Terms" on page 4.

Additionally, the guide describes various network services features, enabled by your service provider. Refer to "Network services" on page 7.

### Documentation conventions

This guide uses various types of texts to indicate specific items. These are called documentation conventions. The table below lists and describes these conventions.:

| Convention | Description |
|---|---|
| *italic* | Indicates emphasized text.<br>Example: You *cannot* use your phone without this card. |
| **bold** | Indicates one of the following items:<br>• Text displayed on your phone's screen. Example: **Select** or **Silent**.<br>• Special text such as **Notes** and **Warnings.**<br>• A Web link. Example: The Nokia World Wide Web site at **www.NokiaUSA.com**. |



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## Terms

This guide uses the following terms:

- **Press** means to briefly press and release a button.
- **Press xxx** means to press the selection key that is below **xxx**.
- Cross references appear as "see page x."
- **Press and hold** means to press and hold a button for 1 to 3 seconds (depending on the feature being used), then release the button.

# • Accessing this guide online

The latest version of this User guide may be available on the Nokia World Wide Web site at **www.NokiaUSA.com**. Go to **English and Spanish User's Manuals**, and then perform a search to access this documentation.



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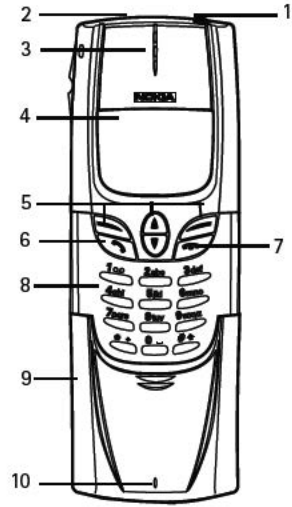
# • Keys and features

## Front

1- Power key
2- Retractable antenna
3- Earpiece
4- Screen
5- Selection and scroll keys
6- Talk key
7- End key
8- Number keys
9- Sliding cover
10- Microphone

**Note:** When any key is pressed, or the sliding cover is opened or closed, the keypad lights stay on for up to 15 seconds.




## Back

Fixed antenna

Back cover release



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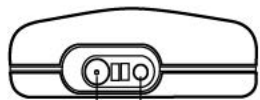
## Left side

## Bottom



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# • Network services

A number of features known as network services are described in this guide. These are special services to which your wireless service provider can give you access.

These services include the following:

- Voice privacy
- Call waiting
- News and info services
- Cell info display
- Notifications on SIM update
- Call forwarding
- Send own number
- Service command editor
- Caller ID

Before you can take advantage of these network services features, you must subscribe to them through your service provider.

Your service provider will give you instructions on how to use these network services. This guide will tell you when you need to contact your service provider for more step-by-step information.

Whenever this guide talks about a network services feature, the text will not only tell you that this is a network services feature, but will also display this icon ++ after the first mention of the feature within a chapter.

**Note:** Some networks might not support all language-dependent characters and/or services.



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# • Contacting Nokia

The Nokia Customer Service department is available to provide you with help or more information. Before you contact this department, however, please have the following information available:

- The phone's model number
- The phone's IMEI (serial) number
- Your Zip code

To find the model and serial number, you have to remove the battery. Refer to "Remove the battery" on page 11 for step-by-step instructions on this procedure.

Finally, if you are calling about any type of phone accessory, please have the accessory available. For example, if you are calling about a headset, please have it handy. This way, if you are asked a specific question about the accessory, it will be available for quick reference.

**Customer Service, USA**
Nokia Mobile Phones
7725 Woodland Center Boulevard, Suite 150
Tampa, FL 33614
Tel: 1-888-NOKIA2U (1-888-665-4228)
or (1) 813-880-5850
Fax: (1) 813-249-9619
TTY: 1-800-24NOKIA (1-800-246-6542)

**Customer Service, Canada**
Nokia Products Ltd.
575 Westney Rd. South
Ajax, Ontario L1S 4N7
Tel: (1) 905-427-6654



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# 2. Before you begin

Before you begin using your phone, you need to perform several tasks. This section tells you how to complete these tasks.

## • Preparing your phone for use

To prepare your phone, you need to perform several steps, which are described in the following subsections:

- "Install the SIM card" (see below).
- "Install the battery" on page 10
- "Charge the battery" on page 10

To find out how to remove a battery, refer to "Remove the battery" on page 11.

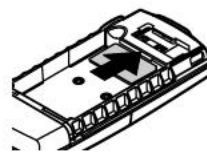
### Install the SIM card

1 Switch off the phone.

2 With the back of the phone facing you, press the back cover release button and slide the back cover off.

3 Align the SIM card:
- Beveled corner on the right
- Gold contact area downward.

4 Insert the SIM card.





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## Notes about SIM cards

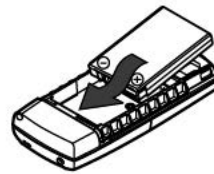
- Keep all miniature SIM cards out of the reach of small children.
- The SIM card and its contacts are easily damaged by scratches or bending, so be careful when handling, inserting, or removing the card.
- You must remove the battery to access the SIM card. Always make sure that the phone is switched off before you remove the battery.

## Install the battery

1 Place the battery in the compartment with the label side facing up and the golden contact area aligned with the contact prongs.

2 Slide the battery into place.

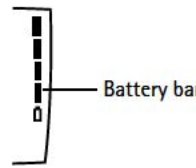
3 Slide the cover back into place



## Charge the battery

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

2 Connect the charger to a standard wall outlet. The the battery power indicator (or battery bar) appears on the screen and starts scrolling. If the phone is on, **Charging** appears also.



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**Note:** If the battery is completely empty, it might take a few minutes before the battery bar appears on the screen.

**Tip:** You can use the phone while it's charging.

3 When the battery bar stops scrolling, the battery charge is complete. **Battery full** appears also, if the phone is on.

**Note:** The charging time depends on the charger and battery that you use. For example, the charging time for the BLB-2 battery with the ACP-8U charger is about 1 hour and 40 minutes.

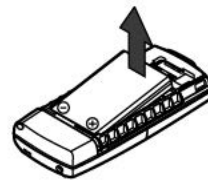
4 Disconnect the charger from the phone.

## Remove the battery

1 Switch off the phone.

2 Press the back cover release button and slide off the cover.

3 Lift out the battery.





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# 3. About your phone

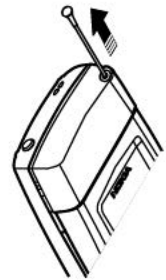
## • Switch on your phone

- Press and hold ⏻ for more than a second.

  The phone might ask for a Personal Identification (PIN) code or a security code. See "PIN and PUK codes" on page 67 for more information.

**Warning!** Do *not* switch on the phone in places where wireless phone use is prohibited or where the use of the phone could cause interference or danger.

Your phone has a retractable antenna that works with the internal antenna when retracted. Extend the antenna when you need to get a better signal.



**Tip:** 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 might cause the phone to operate at a higher power level than needed.

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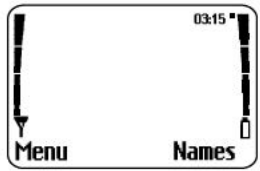
# About the Start screen

When you turn on your phone, the first screen that appears is the Start screen. In the middle of the Start screen, you see information indicating which wireless network your phone uses. This information can vary between phones. Other indicators and icons appear on this Start screen and are described in the next section.

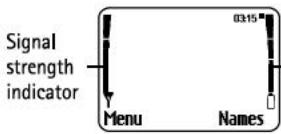



## About indicators and icons

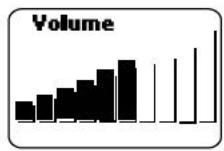
On your phone, you have two types of identifiers: indicators and icons.

### Indicators

*Indicators* show the status of something. The phone uses three types of indicators:




- Signal strength indicator: Shows the strength of the signal to your phone.
- Battery power indicator: Shows how much power is left in your phone's battery.
- Volume indicator:
  Shows the earpiece volume level.
  Adjust the volume level with the earpiece volume buttons on the left side of the phone (see "Adjust the earpiece volume during a call" on page 18).



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## Icons

*Icons* are graphical representations of a specific item or situation. For example, this icon appears when you have a voice message waiting to be heard. (Some systems use a different method.)

The rest of this section shows examples of each icon that can appear on your phone and tells you what these icons indicate.

Line 1 is selected for outgoing calls.

Line 2 is selected for outgoing calls.

You have an active call.

You have one or more new voice messages.

You have one or more new text messages.
(If blinking, text message memory is full.)

Keyguard is on. Your phone will not accept any keypresses.

The alarm clock is set.

The **Silent** profile is selected.

Incoming voice calls are being forwarded to another number.

You have forwarded all voice calls received on line 1.

You have forwarded all voice calls received on line 2.

You have forwarded all voice calls received on lines 1 and 2.

The phone is ready for you to enter a response.

Characters entered will be uppercase letters.
Press #⇧ to switch letter case.

abc

Characters entered will be lowercase letters.
Press #⇧ to switch letter case.



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| | |
|---|---|
| 123 | Characters entered will be numbers. (When entering letters, switch to numbers by pressing and holding #⇧.) |
| ?!£ | You are in "special character" mode. Select a character, then press **Use**. (When entering letters, switch to special characters by pressing the *+ key.) |
| Abc | You are in predictive text mode. |
| ABC | You are in predictive text mode. Characters entered will be uppercase letters. Press #⇧ to switch letter case. |
| abc | You are in predictive text mode. Characters entered will be lowercase letters. Press #⇧ to switch letter case. |
| 123 | You are in predictive text mode. Characters entered will be numbers. |
| | Indicates the current call. |
| | Indicates a call on hold. |



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# 4. Making and answering calls

This chapter tells you how to make and receive calls and how to adjust certain options.

## • Make a call

The Nokia 8890 has both a fixed, internal antenna and a retractable antenna. When using the antenna in the extended position

- extend the antenna fully
- retract the antenna when you're not using the phone

**Note:** The position of the antenna does not affect the functioning of the phone.

### Check the signal strength

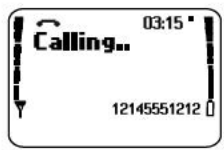
The signal indicator on the left side of your phone's screen shows the strength of the network radio signal. The indicator scrolls as the signal strength increases and decreases. To get the strongest signal, try moving your phone slightly. If you're inside a building, move toward a window.

### Use the keypad

1 Enter the area code and phone number.

2 Press .

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



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

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

## Use the phone book

1 From the Start screen, press ⊕ or ⊖ and scroll to the number you want.

2 Press ☎ to make the call.

**Tip:** To skip ahead quickly in the list, press the number key that matches the first letter of the name.

## Use the sliding cover

Protect your phone's number keys and answer or end calls with the sliding cover.

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

When the sliding cover is closed, you can use your phone book to make calls (see "Phone book" on page 29) but you cannot use the number keys.

### Use the sliding cover to answer, end, and reject calls

- To answer an incoming call, slide the cover down.
- To end or reject an incoming call, slide the cover up.



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- To close the cover without ending a call, press **Options** before you close the cover. When you close the sliding cover, this screen appears.

- Press , , , or  to answer, end, or reject calls.

**Note:** When you connect the phone to a headset or a car kit, you can still use the cover to answer calls.

## Make calls with the sliding cover closed

Even with the sliding cover closed, you can still:

- Make a call with the redial feature (see "Redial the last-dialed number" on page 19).
- Make a call from the phone book (see "Phone book" on page 29).
- Make a call with the voice tag feature (see "Use Voice dialing" on page 48).

## Advanced calling options

- Make an international call: see "Make an international call" on page 53.
- Make a call using the voice tag feature: see "Use Voice dialing" on page 48.
- Make a 1-touch call: see "1-touch dialing" on page 51.

## Adjust the earpiece volume during a call

- To increase the volume of a call, press the upper part of the volume key.
- To decrease the volume, press the lower part of the volume key.

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



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# • End a call

- Press or close the sliding cover.

# • Answer a call

When someone calls you, the phone alerts you (see "Ringing options" on page 60) and **Call** flashes on the display.

- To answer, press any key except **Decline** or , or open the sliding cover.

## Caller ID

This is a network service that helps identify incoming calls. Contact your service provider for details

When Caller ID is active, your phone may display the caller's phone number. The caller's name may also appear, if their name and number have been stored in the phone book (see "Phone book" on page 29), or if the wireless network supports it.

# • Reject a call

- Press **Decline**, or close the sliding cover.

# • Redial the last-dialed number

- Press twice.

## Dial any of the 10 last-dialed numbers

1 Press .

2 Scroll to the number you want to redial.

3 Press again.



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# 5. The menu

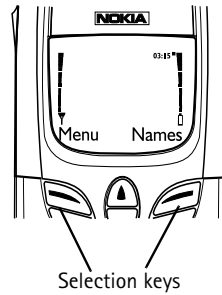
Your phone offers an extensive range of functions that are grouped in menus and submenus. Access these menus with the selection keys and scroll keys, or by entering the appropriate shortcut number.

## • Using the menus

### Selection keys

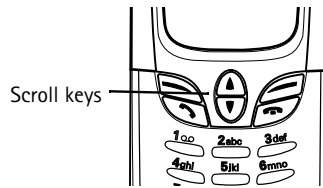
Below the screen, you will find two selection keys. Their functions depend on the text above the keys.

For example, in this screen, the word **Menu** appears above the selection key. Press the key to enter the menu function. Similarly, press the key under **Names** to access phone book functions.




### Scroll keys

Use the scroll keys, located just below the screen, to scroll through your phone's menus and phone book.






Petitioner Samsung Ex-1011, 0029

## Scroll bar

While using your phone's menus, a scroll bar appears at the far right of the screen. This bar indicates where you are in the menu. Each numbered "tab" on the bar represents a different menu item.

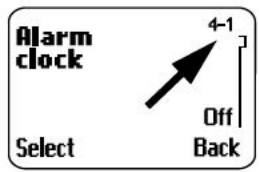
For example, press **Menu** once.
The scroll bar appears with the first (top) tab displayed. A different tab appears each time you press ⊕ or ⊖.

## Help text

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

# • Menu shortcuts

When you scroll to a menu item, the menu number appears on the screen above the scroll bar. If you learn some of these menu numbers, you can use them to quickly get to different features instead of having to scroll to them through the menu.




- To use a shortcut, press **Menu** and then the menu number.
- If menu 10 is active, press **01**, for faster access to the menus.



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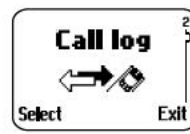
# • List of menu shortcuts

Here is an abbreviated list of menu items and their menu shortcuts. Later chapters tell you how to work with the menus and explain their functions.

## 1 Messages

1 Inbox
2 Outbox
3 Write messages
4 Picture messages
5 Message settings
  1 Set 1 (up to five sets may appear)
    1 Message center number
    2 Messages sent as
    3 Message validity
    4 Rename this set
  2 Common
    1 Delivery reports
    2 Reply via same center
6 News & info service
7 Service command editor
8 Fax or data call
  1 Fax and data
  2 Also voice
  3 Fax mailbox
  4 Data mailbox
9 Voice messages
  1 Listen to voice messages
  2 Voice mailbox number

## 2 Call log



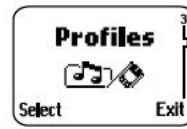

1 Missed calls
2 Received calls
3 Dialed calls
4 Clear call lists



Petitioner Samsung Ex-1011, 0031

5 Call timers
  1 Last call
  2 All calls
  3 Received calls
  4 Dialed calls
  5 Clear timers
6 Call costs
  1 Last call cost
  2 All calls cost
  3 Clear counters
7 Call cost settings
  1 Call cost limit
  2 Show costs in

## 3 Profiles

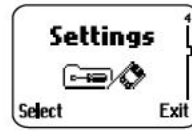



1 Normal
  1 Select
  2 Customize
    1 Ringing options
    2 Ringing tone
    3 Ringing volume
    4 Vibrating alert
    5 Message alert tone
    6 Keypad tones
    7 Warning and game tones
2 Silent
3 Meeting
4 Outdoor
5 Pager
6 Car
  1 Lights
  2 Auto answer
7 Headset
  1 Auto answer



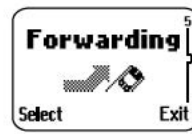
Petitioner Samsung Ex-1011, 0032

## 4 Settings




1 Alarm clock
2 Clock
3 Auto update of date and time
4 Call settings
   1 Automatic redial
   2 Calling card
   3 Closed user group
   4 Send own caller ID when calling
   5 Call waiting
   6 Line for outgoing calls (see your service provider)
5 Phone settings
   1 Language
   2 Cell info display
   3 List of own numbers
   4 System selection
   5 Touch tone length
   6 Notifications on SIM update
   7 Restore factory settings
6 Security settings
   1 SIM card security
   2 Phone security
   3 Call restrictions
   4 Fixed dialing
   5 Change access codes
      1 Change PIN code
      2 Change PIN2 code
      3 Change security code
      4 Change restriction password

## 5 Forwarding (see your service provider)




1 Forward all voice calls
2 Forward if busy
3 Forward if not answered



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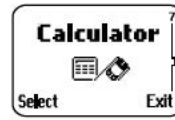
4 Forward when phone off or no coverage
5 Forward when not able to take calls
6 Forward all fax calls
7 Forward all data calls
8 Cancel all call forwarding

**6 Games**

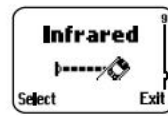
1 Memory
2 Snake
3 Logic
4 Rotation

**7 Calculator**




**8 Calendar**

**9 Infrared**




**10 SIM services (if supported by your SIM card and service provider)**

Petitioner Samsung Ex-1011, 0034

# 6. Entering letters and numbers

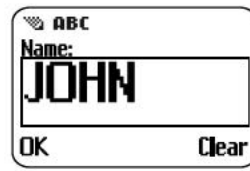
You can enter letters and numbers into your phone for a person's name and phone number, writing a text message, and so on. There are two ways to do this:

- Standard text input, for making entries in the phone book, entering calendar notes, and renaming caller groups
- Predictive text input, for writing text messages and picture messages. See "Using predictive text input" on page 75 for more information

## • Standard text input

### ABC mode

This is the default mode. The ABC icon appears as visual confirmation.




1 Find the key that is below the letter you want to enter.

2 Press it as many times as needed for the letter to appear on the screen.

For example, to enter the name John:

| | | |
|---|---|---|
| Press | 5jkl | J |
| Press | 6mno 6mno 6mno | O |
| Press | 4ghi 4ghi | H |
| Press | 6mno 6mno | N |



Petitioner Samsung Ex-1011, 0035

Depending on the selected display language, the following characters may be available.

| Key | Characters | Key | Characters |
|---|---|---|---|
| 1 | . ' ? ! - 1 | 7 | PQRS7 |
| 2 | ABC2 | 8 | TUV8 |
| 3 | DEF3 | 9 | WXYZ9 |
| 4 | GHI4 | 0 | space, 0 |
| 5 | JKL5 | * | (See page 28 for details.) |
| 6 | MNO6 | # | Changes letter case |

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

## Enter spaces and punctuation

- To enter a space, press 0 once.
- To enter punctuation, press 1 repeatedly until the character you want appears.

## Erase mistakes

If you make a mistake:

- Press **Clear** to erase that character.
- Press **Clear** as needed to erase more than one character, or press and hold **Clear** to erase the entire field of characters.

## Change letter case

- To switch between uppercase and lowercase letters, press #.

The **ABC** icon switches to **abc**, showing you are using lowercase letters.



Petitioner Samsung Ex-1011, 0036

# 123 mode

To enter numbers, you can:

- Press and hold # and switch to 123 mode. Your phone displays the 123 icon. Press the appropriate number key to enter a number.
  OR
- While in ABC mode, press and hold the corresponding number key until the number appears.

As with the ABC mode, if you make a mistake

- Press **Clear** to erase that character.
- To switch back to the ABC mode, press and hold # again.

# Use special characters in names and phone numbers

## In ABC mode

1 Press and hold * + . A screen appears with the following special characters available:
  . , ? ! : ; - + # * ( ) ' " _ @ & $ £ % / < > ¿ ¡ § = ¤ € ¥

2 Use scroll keys to select the character you want, then press **Insert**.

## In 123 mode:

You can access the following special characters only in 123 mode:

* Use this character to send command strings to the network. Contact your service provider for details.

\+ Use this character as a prefix for dialing international numbers.

p Use this character to create a pause that occurs when dialing a number. Numbers entered to the right of this special character are automatically sent as touch tones after a 2.5-second pause.

w This character creates a wait; digits to the right of the **w** are not sent until you press .



Petitioner Samsung Ex-1011, 0037

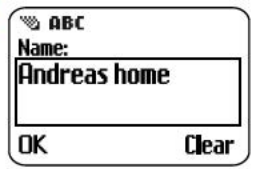
# 7. Phone book

Use the phone book to store names and phone numbers.

- A phone book entry can consist of a number only, or a name and number.
- A name may appear only once in the phone book. If you try to save a name that already exists in the phone book, the phone asks if you want to replace the existing name.

## • Save names and numbers

### Save a name and number




1 Enter the phone number and press **Save**.

2 Enter a name, then press **OK**.

**Note:** For international dialing, press * + twice to enter the + symbol in front of the phone number.

### Save a number only

1 Enter the phone number.

2 Press and hold **Save**.

The number is saved in your phone book. You can add a name to it later.

### Save a name and number while in a call

1 Press **Options**.

2 Scroll to **Names**, then press **Select**.

3 Scroll to **Add entry**, then press **Select**.



Petitioner Samsung Ex-1011, 0038

4 Enter the name, then press **OK**.

5 Enter the phone number, then press **OK**.

## If your phone book is full

If your phone book is full, you can save the phone number to another memory or replace an existing entry.

- Scroll to the entry you want to replace, then press **OK**.

# • Find names in the phone book

## From the Start screen

- Press ▲ or ▼.
  OR

  Press **Names**. **Search** appears highlighted.
- Press the number key that matches the first letter of the name.

## While in a call

1 Press **Options**.

2 Scroll to **Names** and press **Select**.

  **Search** is highlighted.

3 Press the number key that matches the first letter of the name.

  OR

4 Press **Select**.

5 When the box appears, enter the name and press **OK**. You can enter just the first few letters of the name, then press **OK**. Your phone will show the closest matching name.



Petitioner Samsung Ex-1011, 0039

# • Edit (revise) names and numbers

At the Start screen:

1 Recall the stored name, press **Details**, then press **Options**.

2 Scroll to **Edit**, then press **Select**.

3 Edit the name, then press **OK**.

4 Edit the number, then press **OK**.

# • Erase names and numbers

## Erase stored names and numbers

At the Start screen:

1 Recall a stored name.

2 Press **Details**, then **Options**.

3 Highlight **Erase**, then press **Select**, then **OK**.

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

## Erase your entire phone book

**Caution!** This feature erases your entire phone book and can't be undone!

1 Press **Names**.

2 Scroll to **Erase** and press **Select**.

3 Scroll to **Erase all** and press **Select**.

4 Scroll to the memory (Phone or SIM card) you want to erase, then press **Select**.

5 When you see **Are you sure?**, press **OK**.

6 When the **Security code:** prompt appears, enter your security code and press **OK**.



Petitioner Samsung Ex-1011, 0040

# • Two types of memory

Your phone has both phone memory and SIM card memory. You can save names and numbers in either memory. The internal phone memory can store up to 250 names and numbers. The amount of names and numbers you can store in SIM card memory is dependent on SIM card capacity. Please check with your SIM card provider or carrier.

## Switch between internal memory and SIM memory

1 At the Start screen, press **Names**.

2 Scroll to **Options**, then press **Select**.

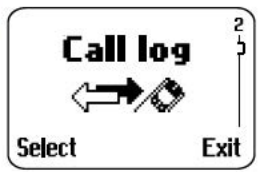
3 Scroll to **Memory in use**, then press **Select**.

4 Scroll to **SIM card** or **Phone**, then press **OK**.

**Note:** Whenever you insert a SIM card for the first time, or if you insert a different SIM card, SIM card memory is automatically selected.

# • Call log++

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

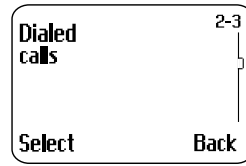





Petitioner Samsung Ex-1011, 0041

# Look up dialed calls

Your phone saves the last 10 numbers you've dialed.




1 Press **Menu** 2 3.

2 Scroll to the number you want to see information about.

3 To dial the number, press ; for other options, press **Options** (see "Options in call lists" on page 34).

# Look up received calls

Your phone saves the phone numbers of the 10 most recent calls you've answered, if the caller's number was available.

1 Press **Menu** 2 2.

2 Scroll to the number you want to see information about.

3 To dial the number, press ; for other options, press **Options** (see "Options in call lists" on page 34).

# Check for missed calls

Your phone saves the numbers and names (if available) of the last 10 callers that have tried unsuccessfully to reach you.

The screen tells you how many calls were missed. If the caller's name and number are stored in memory, that information appears.

## After missing a call

1 Press **List**.

If you have missed more than one call, you can scroll through the list of numbers.

2 To dial the displayed number, press .

3 For other options, press **Options**. (See "Options in call lists" below for more information.)

4 To exit, press **Back**.



Petitioner Samsung Ex-1011, 0042

### At any time

1 Press **Menu** 2 1.

2 Scroll to the number you want to see information about.

3 To dial the number, press .

4 For other options, press **Options** (see "Options in call lists" below).

### Options in call lists

When you view the missed calls, received calls, or dialed calls list and press **Options**, a list of options appears on your phone's screen.

**Call time** shows the date and time of the last call. Use the scroll keys to scroll through up to five recent call dates/times for the displayed phone number.

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

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

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

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

## Clearing call lists

This feature clears all the missed, received, and dialed call lists.

1 Press **Menu** 2 4.

2 Scroll to **All**, **Missed**, **Dialed**, or **Received**, then press **OK**.

**Note:** Missed, received, and dialed calls lists are also erased when you change the phone security setting (see "Security features" on page 66) or when you use a SIM card that is not one of the five most recent cards used with the phone.



Petitioner Samsung Ex-1011, 0043

# 8. Voice mail++

Voice mail is a network feature that enables those who call you to leave a voice message.

**Note:** You can use voice mail with either one or two phone lines.

When you receive a voice message, your phone lets you know by beeping, displaying an icon on the screen, or showing a text message. The method of notification depends upon your carrier.

Additionally, if you receive more than one voice mail message, your phone may display the number of messages that you have received. Finally, if you have subscribed to two different phone lines, the message would indicate the line to which the message was addressed.

However, even though your phone notifies you of a message, the voice mail feature is independent of your phone's software. To use voice mail, you must have:

- A voice mail subscription
- A voice mailbox number
- A temporary password

These items are provided by your service provider. Your service provider should also tell you how to record a greeting for your voice mailbox and how to change the temporary password.

After you obtain this information from your service provider, you must then save the voice mailbox number given to you to your phone. Refer to "Save the voice mailbox number" on page 36.

After you have saved your voice mailbox number, refer to "Listen to your voice messages" on page 36.

**Note:** If you have difficulty using the voice mail feature, contact your service provider.



Petitioner Samsung Ex-1011, 0044

# • Save the voice mailbox number

1 Press **Menu** 1 9 2.

2 Enter your voice mailbox number, then press **OK**.

**Note:** The number can be up to 32 digits long.

## Work with two phone lines

If your particular SIM card supports it, your phone can have two phone lines. Your service provider can tell you if your SIM card allows the use of this feature and give you access to two phone lines.

If you decide to use two phone lines, you can select one of the two lines for outgoing calls, but you can still answer calls on both lines.

If you use two phone lines, you will be given a voice mailbox number for each line. You need to save each phone line's voice mailbox number separately.

To do this, first select the outgoing line and save its voice mailbox number. Then, select the other line and save its number.

# • Listen to your voice messages

If there's a notification message on your screen, you can get your voice messages using any of the following methods:

- Press to call your voice mailbox and follow the directions provided.
- If you've saved your voice mailbox number in your phone, press and hold 1 to call your voice mailbox.
- Call your voice mailbox number as you would any other telephone number, then follow the directions provided.



Petitioner Samsung Ex-1011, 0045

# 9. Profiles

The profiles feature lets you adjust and customize the phone's ringing tones for different events, environments, and caller groups. There are five profiles available:

- Normal
- Silent
- Meeting
- Outdoor
- Pager

Normal is the default setting, but it is easy to switch to another profile.

**Note:** Two additional profiles, Car and Headset, appear only after these accessories are connected to the phone for the first time.

## • Select profiles

1 Press **Menu** 3.

2 Scroll to the profile you want.

3 Press **Options**. **Select** is highlighted.

4 Press **OK**.

OR

- To access the profiles directly, press and release ⏻ until the desired profile is highlighted, then press **OK**.

For example, to keep your phone from ringing, select the **Silent** profile. If you want your phone to ring loudly, select the **Outdoors** profile.

**Note:** You can customize the profiles and even rename all of them, except Normal, Car, or Headset. See "Customizing your phone" on page 59 for more information.



Petitioner Samsung Ex-1011, 0046

# 10. Advanced calling features

## • Active call options

### Use call waiting++

This network service lets you receive an incoming call when you're already in a call. (Contact your service provider for availability.) The phone beeps to let you know of the incoming call.

#### Activate/cancel call waiting

1 Press **Menu** 4 4 5.

2 Scroll to **Activate** or **Cancel**.

3 Press **OK**.

#### Confirm call waiting status

1 Press **Menu** 4 4 5.

2 Press **Select**.

3 Scroll to **Status** and press **OK**.

The display shows **Active: Voice calls**. Scroll to check the status of other features such as fax or asynchronous data services.

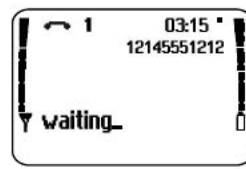
#### Answer a waiting call

1 Your phone signals when you have a call waiting.

2 Press to put the current call on hold and answer the waiting call.

OR

Press **Options**, then press **Select**.






Petitioner Samsung Ex-1011, 0047

## Reject a waiting call

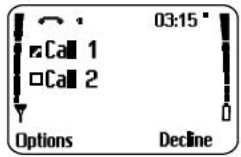
You can just let the phone ring, or follow the steps below.

- Press **Decline**,

OR

1 Press **Options** and scroll to **Reject**.

2 Press **Select**.




## Switch between calls

- Press or **Swap**.

The icon represents the active call and the icon represents the call on hold.

## End the active call

- Press .

  The held call becomes active.

OR

1 Press **Options** and scroll to **End active call**.

2 Press **Select**.

## Third call waiting

If you have both an active and a held call and a third call is waiting, choose one of the following options.

## Drop an active call to answer the waiting call

- Press .

The held call is unaffected.

## End the active call and held call to answer the waiting call

1 Press **Options**.



Petitioner Samsung Ex-1011, 0048

2 Scroll to **End all calls**.

3 Press **Select**.

## Use in-call options

During a call, press **Options** to see the In-call menu. Your choices are:

| Choice | What it does |
|---|---|
| **Hold or Unhold** | Holds or releases a call. |
| **New call** | Makes a call when you have a call in progress. |
| **Touch tones** | Sends touch tones. |
| **End all calls** | Ends all calls. |
| **Names** | Switches you to the phone book. |
| **Menu** | Switches you to the menu. |
| **Mute** | Mutes a call. |

## Put a call on hold

1 To put a call on hold, press **Hold**.

2 To return to the call, press **Unhold**.

## Make a new call

1 Enter the second phone number, or recall it from the phone book.

2 Press .

OR

1 Press **Options**.

2 Scroll to **New call**, then press **Select**.



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3 Enter the second phone number, or recall it from the phone book.

4 Press **Call**.

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

### Switch between two calls in progress

- Press or **Swap**.

The icon represents the active call and the icon represents the call on hold.

### End the active call

- Press .

The held call becomes the active call.

## Send touch tones

When you press the keys during a call, your phone generates sounds known as touch tones. Use touch tones to access many automated, over-the-phone services such as voice mail, checking airline arrival/departure times, and bank balances.

**Note:** You must be on an active call to send touch tones.

### Set touch-tone length

1 Press **Menu** 4 5 5.

2 Scroll to **Short** (1/10 second) or **Long** (1/2 second)

3 Press **OK**.

### Save touch tone strings

A touch-tone string is a series of tones in a certain sequence. Use touch tone strings to send and receive information with your phone. For example, you can save your office voice mailbox number along with your password for easy access to your messages.



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Store touch tone strings the same way you save phone numbers (see "Save names and numbers" on page 29).

For frequently used strings of numbers, you can save an entire sequence of digits in your phone book and send it as a touch tone string.

### Send a touch tone string

1 Press **Options**.

2 Scroll to **Touch tones** and press **OK**.

3 Enter a touch tone string or recall a touch tone string from the phone book and press **OK**.

## End all calls

1 Press **Options**.

2 Scroll to **End all calls**, then press **Select**.

## Access the phone book

This option appears in the menu as **Names**.

1 Press **Options**.

2 Scroll to **Names** and press **Select**. Now all your phone book functions are available. See "Phone book" on page 29 for details.

## Access menus

- Scroll to **Menus** and press **OK** to access any of your phone's menus.

## Mute/unmute the microphone

You can mute and unmute your phone's microphone while a call is in progress. The difference between *mute* and *hold* is that mute lets you hear the other caller.

1 Press **Options**.

2 Scroll to **Mute**, then press **Select**.



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3 To unmute the microphone, press **Unmute**.

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

# Conference calls++

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

### Make a conference call

1 Make a normal call to the first person.

2 Press **Options** and scroll to **New call**.

3 Press **Select**, recall or dial the number of the next party you want to include, then press **Call**.

4 After the other party answers, press **Options**.

5 Scroll to **Conference**, then press **Select**.

6 To add other parties to the call, repeat steps 2 through 5.

7 To end the conference call, press .

### Have a private conversation with a participant

1 While in a conference call, press **Options**.

2 Scroll to **Private**, then press **Select**.

A list of the participants appears.

3 Scroll to the person you want to speak with, then press **OK**.
The other participants can continue talking with each other.

4 To rejoin the conference call, press **Options**.

5 Scroll to **Conference**, then press **Select**.

### Drop a participant from the conference call

1 While in a conference call, press **Options**.

2 Scroll to **Private**, then press **Select**.

A list of the participants appears.



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3 Scroll to the person you want to drop, then press **OK**.

The other participants can continue talking with each other.

4 Press **Options**.

5 Scroll to **End active call**, then press **Select**.

## Transfer a call++

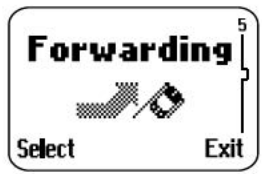
When you have one active and one held call, you can connect the two calls and disconnect yourself from the call.

**Note:** Your network must support this feature.

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

# • Call forwarding++

This network service lets you forward your incoming calls to another phone number.




**Note:** If you have subscribed to a second phone line, call forwarding works separately for each line. Make sure you have selected the line you want before you set up any call forwarding. The following icons appear on your phone's screen:

Incoming voice calls are being forwarded to another number.

You have forwarded all voice calls that are received on line 1.

You have forwarded all voice calls that are received on line 2.

You have forwarded all voice calls that are received on lines 1 and 2.



Petitioner Samsung Ex-1011, 0053

# Activate call forwarding

1 Press **Menu** 5.

Scroll to one of the following options:

5 1 **Forward all voice calls**
Forwards all voice calls without ringing.

5 2 **Forward if busy**

5 3 **Forward if not answered**

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

5 5 **Forward when not able to take calls**
Combines the previous three types, and lets you choose a delay time between 5 and 30 seconds.

5 6 **Forward all fax calls**

5 7 **Forward all data calls**

5 8 **Cancel all call forwarding**

2 Press **Select**.

3 **Activate** is highlighted; press **OK**.

4 Select **Voice Mail**

OR

Select **Other number**.

5 If you choose **Other number**, enter the phone number to which you want to forward calls, then press **OK**.

You can press **Number** to see if you entered the phone number correctly.

# Cancel call forwarding

1 Press **Menu** 5 1.

2 Scroll to **Cancel** and press **OK**.



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

## Check call forwarding status

1 Press **Menu** 5.

2 Scroll to the call forwarding option you want to check.

3 Scroll to **Status**, then press **OK**.

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

You can press **Number** to see which phone number the calls are being forwarded to.

# • Automatic redial

This feature redials the number you're trying to call up to ten times.

**Note:** Automatic redial will not work while you make or answer another call.

## Activate automatic redial

1 Press **Menu** 4 4 1.

2 Scroll to **On**, then press **OK**.

3 Press and hold **Back** to return to the Start screen.

If the number you dial is busy, your phone immediately redials the number. If it is still busy, your phone will redial the number up to nine more times.

# • Calling card

You can store two calling card numbers in your phone's memory.



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## Save calling card information

1 Press **Menu** 4 4 2.

2 Scroll to the calling card information you want to change, then press **Options**.

3 Scroll to **Edit**, then press **OK**.

4 Enter your security code, then press **OK**.

5 At **Dialing sequence**, press **Select**. Scroll to the dialing sequence your card uses (see chart on the next page) then press **Select**.

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

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

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

7 Enter the card number and/or PIN, then press **OK**.

8 Your phone displays **Save changes?** Press **OK**.

9 Scroll to **Card name:** and press **Select**.

10 Enter the card name, then press **OK**.



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## Choose a calling card

1 Press **Menu** 4 4 2.

2 Scroll to the card you want to use, then press **Options**.

3 **Select** is highlighted; press **OK**.

4 Enter your security code, then press **OK**.

## Make a calling card call

1 Enter the phone number, including any prefix (such as 0 or 1) that your calling card may require. See your calling card for instructions.

2 Press and hold until your phone displays **Card call**.

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

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

This procedure may not work with all calling cards. Follow the directions on the back of your calling card or contact your long distance company for more information.

# • Use Voice dialing

Your phone's voice dialing feature lets you dial a number using your voice. Before using this feature, you need to create entries in the phone book so you can associate a "voice tag" with the name you wish to dial.

## Add a voice tag to a phone book entry

To create entries in the phone book, see "Save names and numbers" on page 29. By this time you should be familiar with the phone book. If not, see "Phone book" on page 29.

1 At the Start screen, scroll to the name you want to give a voice tag.

2 Press **Details**, then **Options**, and scroll to **Add voice tag**.



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3 Press **Select**. The phone displays **Press Start, then speak after tone**.

4 Hold the phone up to your ear and press **Start**.

You hear several beeps, and **Please speak now** appears. If you're using the headset, release the button.

5 Speak clearly into the microphone.

**Note:** **Do NOT** press **Quit** when you're finished.

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

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

**Warning:** Do not rely only on a voice tag for dialing emergency numbers. In emergencies, stress causes changes in your voice, which may keep the phone from recognizing the command.

## Notes about voice tags

- Voice tags are not language dependent. Any clearly spoken word or phrase can serve as a voice tag.
- It's easier for the phone to differentiate between long, unique voice tags. For example you might want to record a person's first and last names rather than only the first name.
- Voice tags must be shorter than 1.5 seconds.
- Voice tags are sensitive to background noise. For best results, record them in a quiet environment.
- If you delete a name, any associated voice tag is also deleted.
- The recording process stops automatically. Pressing **Quit** aborts the recording attempt.



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## Make a call using voice recognition

1 Hold the phone up to your ear, then press and hold **Names**.

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

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

2 Pronounce the voice tag clearly into the microphone.

**Searching** appears. When the phone finds the voice tag, **Found** appears, and the phone automatically dials the number.

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

3 Press **Yes** to try again or **Exit** to cancel and return to the Start screen.

## Play back a voice tag

1 Press **Names** and scroll to **Voice tags**.

2 Press **Select**, then scroll to the name with the voice tag you want to hear.

3 Press **Options**, select **Playback**, and press **OK**.

## Change a voice tag

1 Press **Names** and scroll to **Voice tags**.

2 Press **Select**, then scroll to the name with the voice tag you want to change.

3 Press **Options**, scroll to **Change**, and press **OK**.

4 The phone displays **Press Start, then speak after tone**.



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5 Press **Start**.

**Note:** Refer to "Notes about voice tags" on page 49.

6 The phone repeats your voice tag, and **Voice tag saved** appears.

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

## Erase a voice tag

1 Press **Names** and scroll to **Voice tags**.

2 Press **Select**, then scroll to the name with the voice tag you want to change.

3 Press **Options**, scroll to **Erase**, and press **OK**.

**Erase voice tag?** appears.

4 Press **OK** to erase the voice tag.

# • 1-touch dialing

Assign a name and number to a 1-touch dial location so that when you press this key, the associated number automatically dials.

**Note:** The first nine numbers stored in SIM memory are automatically stored in keys 1 through 9 as 1-touch dial numbers. You can assign new numbers to the keys, but the names and numbers must be already stored in the phone book. Refer to "Phone book" on page 29 for more information.

Key 1 can be set up to access your voice mail. Check with your service provider for details. Also, any key can be set up to dial emergency numbers such as 911.



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# Assign a number to a 1-touch dial key

1 Press **Names** and scroll to **1-touch dialing**.

2 Press **Select**.

3 Scroll to the first number that shows the message **(empty)** and press **Assign**. A list of names appears.

4 Scroll to the phone book entry you want to assign to this key, press **OK**, and **Options** appears.

Now you can edit the number if needed.

# Call a 1-touch dial number

- Press and hold the appropriate key, or press the key then press . The phone dials the number.

## 1-touch dialing for key 1

- If your phone is set up for voice mail, you can press and hold 1 and your phone dials voice mail.
- If you assign a 1-touch number to key 1, press 1, then press . The phone dials the 1-touch number.

# Change 1-touch dialing numbers

1 Press **Names**.

2 Scroll to **1-touch dialing** and press **Select**.

3 Scroll to the key that you want to change and press **Options**.

4 Scroll to **Change** and press **Select**.

A list of names appears.

5 Scroll to the new name you want to assign to this key and press **OK**.

# Erase 1-touch dialing numbers

1 Press **Names**.

2 Scroll to **1-touch dialing** and press **Select**.



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3 Scroll to the key that you want to erase and press **Options**.

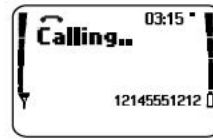
4 Scroll to **Erase** and press **Select**.

5 Press **OK** to confirm.

# • Make an international call

1 Enter the + character (by pressing the key twice), country code, area code, and phone number.

2 Press .




# • Use the phone book

To use phone book menus, begin at the Start screen and press **Names**. Then, scroll through the menus to select a particular menu or option.

| Option | Action |
|---|---|
| **Search** | Searches for a specific name. |
| **Add entry** | Enters a new name and number. |
| **Erase** | Erases names/numbers. You can choose to erase individual names/numbers, or you can erase all information at one time. |
| **Copy** | Copies names/numbers between your phone and SIM card. |
| **Options** | Chooses the memory source (SIM card or internal), phone book view, and shows the memory status. |
| **1-touch dialing** | Assigns up to nine 1-touch dial locations. Refer to "1-touch dialing" on page 51 for more information. |
| **Voice tags** | Programs voice-activated dialing |
| **Caller groups** | Renames or changes the ringing tone for a caller group. |



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# • Caller groups

You can create groups of names in your phone book and give each group a different ringing tone. When someone from that group calls, you'll know because of the ringing tone.

## Add names to a caller group

The name you add to a caller group must first be stored in the phone book.

1 From the Start screen, scroll to the name or number you want.

2 Press **Details,** then press **Options**.

3 Scroll to **Caller groups** and press **Select**.

4 Scroll to the group you want to give this name to and press **Select**.

## Remove names from a caller group

1 Follow steps 1 through 3 above.

2 Scroll to **No group** and press **Select**.

## Assign a ringing tone to a caller group

1 From the Start screen, press **Names**.

2 Scroll to **Caller groups** and press **Select**.

3 Scroll to the group you want and press **Select**.

4 Scroll to **Group ringing tone** and press **Select**.

5 Scroll to the tone you want to hear when anyone from this group calls you and press **OK**.

**Tip:** You can set your phone to ring *only* when people from certain caller groups call you, and to be silent for all other call groups. See the "Caller group" description under "Ringing options" on page 60.



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# Rename a caller group

You can rename any call group with a name of your own.

1 Follow steps 1 through 3 in section "Assign a ringing tone to a caller group" on page 54.

2 Scroll to **Rename group** and press **Select**.

3 Enter the group name, then press **OK**.

# Assign group graphics

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

To turn the graphic on for a caller group:

1 Press **Names**, scroll to **Caller groups**, and press **Select**.

2 Scroll to the name of the group and press **Select**.

3 Scroll to **Group graphic** and press **Select**.

**Note:** To see the group graphic before you select it, scroll to **View graphic** and press **Select**. Press **Back** to return to the menu.

4 Scroll to **On** and press **Select**.

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

## Send a graphic to someone else

1 Follow steps 1 through 3 above.

2 Scroll to **Send graphic**.

3 Enter the phone number or scroll to find it in your phone book, then press **OK**.

For more details on the **Send information via IR** command, see page 96.



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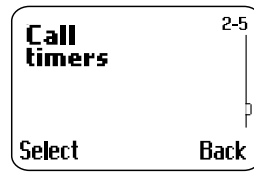
### View a received graphic

1 When you receive a graphic from someone else, **Group graphic received** appears.

2 Press **Options** and then choose **Show** to see the graphic, **Save** to save it (you must choose which caller group gets the new graphic), or **Discard** to discard it.

# • Call timers

The phone automatically tracks the amount of time you've spent on calls.




## If you have two phone lines

If you have subscribed to a second phone line (see "Work with two phone lines" on page 36), call timers are separate for each of your phone lines. When you view call timers, the call timers that are shown are for the currently selected outgoing line. However, if you view call timers while you are in a call, the call timers that are shown are for the line you are using at that moment.

## View the call duration

1 Press **Menu** 2 5.

2 Scroll to **Last call**, **Received calls**, **Dialed calls** or **All calls**.

## Reset call timers to 0

1 Press **Menu** 2 5.

2 Scroll to **Clear timers**, then press **OK**.

3 Enter your security code, then press **OK** again.



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## Show call timer during calls

1 Press **Menu** 2 5.

2 Scroll to **Last call**, then press **Details**. **Current call** is displayed.

3 Press **Select**.

4 Scroll to **On**, then press **OK**.

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

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

# • Use call cost limits

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

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

## Set a call cost limit

1 Press **Menu** 2 7 1.

2 Enter your PIN2 code (see "PIN and PUK codes" on page 67), then press **OK**.

3 Scroll to **Set**, then press **OK**.

4 Enter the number of charging units or dollars, then press **OK**.

**Tip:** Press # to insert a decimal point.

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

## Remove a call cost limit

1 Follow steps 1 and 2 above.

2 Scroll to **Off**, then press **OK**.



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# • Show call costs++

This network service allows you to check the cost of the last or current call, or the total cost of all calls that you have made or received since the counters were last reset. To choose whether call costs are shown in charging units or in dollars, see "Show costs in" on page 58.

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

## View call costs

1 Press **Menu** 2 6.

2 Scroll to **Last call cost** (cost of last call, or current call if applicable) or **All calls cost** (cost of all calls since counters were last reset).

## Clear call cost counters

1 Press **Menu** 2 6.

2 Scroll to **Clear counters**, then press **OK**.

3 Enter your PIN2 code, then press **OK**.

# • Show costs in++

This feature allows you to choose whether you want to show call costs and set call cost limits in charging units or in dollars. (If you choose charging units, contact your wireless service provider for information about the cost of a charging unit.) This feature appears only if supported by your service provider and SIM card.

1 Press **Menu** 2 7 2.

2 Enter your PIN2 code (see "PIN codes" on page 67).

3 Scroll to **Currency** or **Units**, then press **Select**.

4 If you selected **Currency**:

- Enter the unit price, then press **OK**.
- Enter the currency name, then press **OK**.

5 If you chose **Units**, call costs and call cost limits are measured in charging units as agreed to by your service provider.



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# 11. Customizing your phone

## • Profiles

Profiles let you set your phone's sound settings to whatever environment you find yourself in, whether it's a meeting or a soccer game. Each profile contains settings for your phone's ringing option, ringing tone, ringing volume, vibrating alert, message alert tone, keypad tones, and warning and game tones. Just pick the profile that suits your current environment: Normal, Silent, Outdoor, Meeting, or Pager.

**Note:** The Car and Headset profiles do not appear until you attach these accessories for the first time.

You can modify the settings in each profile, and (except for the Normal, Car, and Headset profiles) you can rename them.

### Select a profile

1 Press **Menu** 3.

2 Scroll to the profile you want to use (for example, **Normal**) and press **Options**.

3 Scroll to **Select**, then press **OK**.

### Customize the profile

1 Press **Menu** 3.

2 Scroll to the profile you want to customize (for example, **Normal**).

3 Press **Options**.

4 Scroll to **Customize**, then press **OK**.

The customize options appear.

Profile =
- Ringing option
- Ringing tone
- Ringing volume
- Vibrating alert
- Message alert tone
- Keypad tones
- Warning and game tones
- Automatic answer
- Lights



Petitioner Samsung Ex-1011, 0068

## Ringing options

Choose how a profile notifies you of an incoming call.

1 Scroll to one of the following, and press **OK**.

**Ring**: The phone rings.

**Ascending**: The ringing volume starts low and increases with successive rings.

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

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

**Caller groups**: Sets the phone to ring only if the call is from a person who belongs to the selected group(s). Scroll to the group(s) you want and press **Mark** to select or **Unmark** to deselect them.

**Silent**: The phone sounds no tone. Keypad tones, warning and game tones, and message alert tones are turned off, and the icon appears at the top of the screen.

2 Press **Back**, then **Yes** to save or **No** to ignore the changes.

## Ringing tone

Your phone comes programmed with 35 ringing tones. Also, there are slots available for downloading up to five more ringing tones.

1 Press **Menu** 3.

2 Scroll to the profile for which you want to set the ringing tones, and press **Options**.

3 Highlight **Customize** and press **OK**.

4 Scroll to **Ringing tone**, then press **Select**.

5 Scroll to the tone you want, then pause to hear a sample of the tone.

6 Press **OK** to select the tone or continue scrolling to select a different tone.



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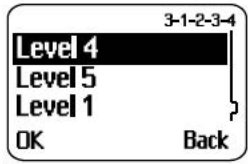
## Ringing volume

This feature sets the ringing volume for incoming voice calls and message alert tones.




1 Press **Menu** 3.

2 Scroll to the profile whose ringing volume you want to set, then press **Options**.

3 Scroll to **Customize**, then press **OK**.

4 Scroll to **Ringing volume**, then press **Select**.

5 Scroll to the volume level you wish to use, then pause to hear a sample of the volume.

6 Press **OK** to select the volume or continue scrolling to select a different volume.

**Note:** If you select Level 5, you see a note stating **VERY LOUD RINGING**. Press **OK** to confirm the setting. Also when you select Level 5, the phone starts ringing at Level 4, then ascends to Level 5.

## Vibrating alert

Your phone has an internal vibrating mechanism. No special battery is needed to make the phone vibrate when someone calls you.

1 Press **Menu** 3.

2 Scroll to the profile for which you want to set the vibrating alert, and press **Options**.

3 Highlight **Customize** and press **OK**.

4 Scroll to **Vibrating alert**, then press **Select**.

5 Scroll to **On** or **Off** and press **OK**.

If you choose **On**, your phone vibrates even if you have set **Ringing options** *(see page 60)* to **Silent**.



Petitioner Samsung Ex-1011, 0070

## Message alert tone

This option sets the tone your phone makes when you get a text message.

1 Press **Menu** 3.

2 Scroll to the profile whose message alert tone you want to set, then press **Options**.

3 Scroll to **Customize**, then press **OK**.

4 Scroll to **Message alert tone**, then press **Select**.

5 Scroll through the tones until you hear one you like, then press **OK**.

## Keypad tones

This option sets the volume of the tone you hear when you press the phone's keys.

1 Press **Menu** 3.

2 Scroll to the profile whose keypad tones you want to set, then press **Options**.

3 Scroll to **Customize**, then press **OK**.

4 Scroll to **Keypad tones**, then press **Select**.

5 Scroll through the choices until you hear the level you want, then press **OK**.

## Warning and game tones

Warning tones are sounds your phone makes for conditions such as errors, confirmations, power on, battery low, and recharge battery. Game tones sound while you are playing one of the phone's games.

1 Press **Menu** 3.

2 Scroll to the profile for which you ant to set the warning tones, then press **Options**.

3 Scroll to **Customize** and press **OK**.

4 Scroll to **Warning tones**, then press **Select**.

5 Scroll to **On** or **Off**, then press **OK**.



Petitioner Samsung Ex-1011, 0071

# Rename a profile

1 Press **Menu** 3.

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

**Note:** Remember, you cannot rename the Normal, Car, or Headset profiles.

3 Scroll to **Rename** and press **OK**.

4 Enter the new profile name, then press **OK**.

# Accessory profiles

## Headset and Car profiles

When you connect your phone to an approved headset or car kit, the phone automatically selects the **Headset** or **Car** profile. These profiles do not appear in the phone's menu until you connect the accessory. Also, you cannot choose a different profile while these accessories are connected.

**Note:** When you connect the phone to a headset or a car kit, you can still use the sliding cover to answer calls.

Your phone remembers any changes you make to the sound settings while the headset or car kit is connected, and uses them again the next time you use that accessory.

## Set for automatic answer

This profile lets your phone answer incoming calls after just one ring.

**Note:** This profile is available only when your phone is connected to a headset or to an approved car kit. This feature does not function with data calls.

1 Press **Menu** 3.

2 Scroll to **Car** or **Headset**, then press **Options**.

3 Choose **Customize** and press **OK**.

4 Scroll to **Automatic Answer**, then press **Select**.

5 Scroll to **On** and press **OK**.



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## Set up car profile

If you are using your phone with an approved car kit, you can set lights to **On** (lights stay on) or **Automatic** (after 15 seconds, lights turn off until the next key is pressed, phone rings, etc.).

# • Restore factory settings

You can use **Menu** 4 5 7 to reset some of the phone settings to their original values. You must enter the security code.

**Note:** Restoring factory settings does not erase your phone book. However, it does erase all customized settings you may have entered.

# • Choose the display language

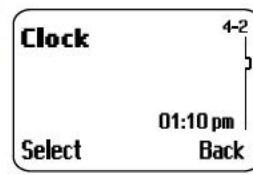
You can choose your phone's display language.

1 Press **Menu** 4 5 1.

2 Scroll to the language you want, then press **OK**.

# • Set up the clock

Your phone has an internal clock that can be displayed on the Start screen. It also features an alarm clock (see "Alarm clock" on page 90).




## Set the clock

1 Press **Menu** 4 2 2.

2 Enter the current time, using two digits for both hours and minutes.



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**OR**

Enter hours and minutes in 24-hour format.

3 Press **OK**.

4 Select **am** or **pm** and press **OK**.

**Note:** If you entered the time in the 24-hour format, **am** and **pm** do not appear.

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

## Select the time format

1 Press **Menu** 4 2 3.

2 Scroll to **24-hour** or **am/pm**.

3 Press **OK**.

## Display the clock

This feature lets you continuously display the time on the Start screen.

1 Press **Menu** 4 2 1.

2 Scroll to **Hide clock** or **Display clock** (only one choice appears, depending on the current setting).

3 Press **Select**.

## Set automatic update of date and time++

If this feature is supported by your wireless service provider, it automatically updates the clock in your phone in accordance with the current time zone.

Press **Menu** 4 3 and choose:

- **On**: Updates the date and time automatically.
- **Confirm first**: Requires you to confirm that you want the update.
- **Off**: Prevents the date and time from being automatically updated.

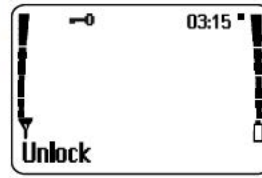


Petitioner Samsung Ex-1011, 0074

# 12. Security features

## • Lock the keypad (Keyguard)

The keypad lock (Keyguard) disables your keypad to prevent accidental key presses (for example, when your phone is in your pocket or purse).




**Note:** Keyguard does not prevent unauthorized use of your phone.

### Lock/unlock the keys using the sliding cover

- Close the sliding cover, then press **Lock keys**.
- To unlock the keys, open the sliding cover.
- To unlock the keys, but leave the sliding cover closed, press **Unlock** and then press **OK**.

### Lock/unlock the keys with the sliding cover open

- To lock the keys, press **Menu**, then *+.
- To unlock the keys, press **Unlock**, then *+.

**Note:** Connecting your phone to a car kit automatically disables Keyguard.



Petitioner Samsung Ex-1011, 0075

# • PIN and PUK codes

The following table summarizes how different types of security codes are used in your phone.

| Code | Purpose | For more information |
|---|---|---|
| **Security code** | Required by several phone features. If phone security is on, the phone requests the security code the first time you use it after installing a new SIM card. | See entries for call timers, calling card, phone book, and phone security. |
| **PIN code** | If SIM card security is on, the phone requests the PIN code every time the phone is turned on. | See "PIN and PUK codes" on page 67. |
| **PIN2 code** | Required by several phone features. | See entries for show call costs, call cost limit, fixed dialing, and PIN and PIN2 codes. |
| **System password** | Required by the Restrict Calls feature. | See "Restricting calls++" on page 71. |

## PIN codes

The PIN (Personal Identity Number) and PIN2 codes are 4- to 8-digit numbers that usually come from your service provider along with the SIM card. Use the PIN code to protect your phone and SIM card against unauthorized use. The PIN2 code activates some of your phone's functions, such as Call Cost Limit (See "Use call cost limits" on page 57).

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

- Enter the code then press **OK**.



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## Change your PIN or PIN2 code

You can change your PIN or PIN2 code to any 4- to 8-digit number.

1 Press **Menu** 4 6 5, then press **Select**.

2 Enter the current PIN code and press **OK**.

3 Enter the new PIN code and press **OK**.

4 Enter the new PIN code again to verify, and press **OK**.

**Note:** If you make a mistake while entering the code, **Code Error** appears. Start again at step 2 and be careful to enter the correct code. If you enter the wrong code three times in a row, the PIN code is blocked. To unblock the PIN code, see "PUK codes" on page 68.

## Set SIM card security

This feature sets your phone to ask for the PIN code each time the phone is switched on and prevents unauthorized use of your phone.

1 Press **Menu** 4 6 1.

2 Enter the PIN code supplied by your service provider, and press **OK**.

3 Press (up or down) to highlight **On** and press **OK**.

To turn off this feature, repeat steps 1 through 3 above, but highlight **Off** in step 3.

**Note:** If you enter the wrong PIN or PIN2 code three times in a row, the SIM card is automatically blocked or you cannot activate the function. See "PUK codes" below to unblock the codes.

# PUK codes

The PUK (Personal Unblocking Key) and PUK2 codes are 4- to 8-digit codes that also usually come from your service provider along with the SIM card. The PUK code unblocks a blocked PIN code, and the PUK2 code unblocks a blocked PIN2 code.



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### Unblock a PIN code

1 Press **Menu** 4 6 5, then press **Select**.

**Change PIN code** appears.

2 To unblock the PIN2 code, press (down) to select **Change PIN2 code**.

3 Press **Select**.

**PIN code blocked** appears.

4 Enter the PUK code, then press **OK**.

**Note:** If you enter a wrong PUK code ten times in a row, the SIM card becomes invalid and you must contact your service provider for a new card.

5 Enter the new PIN code, then press **OK**.

6 Enter the new PIN code again to verify, and press **OK**.

**Note:** You cannot change the PUK or PUK2 code, so keep a record of them in a safe place. If you lose them, contact your service provider.

If you try to change the PIN2 code, and you enter a wrong PUK2 code ten times in succession, you can't use functions requiring the PIN2 code. Contact your service provider for a new card.

## • Security code

You need the security code to access some security features. When the phone requires the security code, it displays **Security code:**.

- Enter the code then press **OK**.

If you enter an incorrect security code five times in a row, the phone will not accept the correct code for 5 minutes.

This code comes with your phone. The default security code is 12345.
To change the security code:



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1 Press **Menu** 4 6 5, then press select.

2 Scroll to **Change security code** and press **Select**.

3 Enter the current security code, then press **OK**.

4 Enter the new security code, then press **OK**.

5 Enter the security code again to verify, then press **OK**.

Keep the code secret and in a safe place, separate from the phone.

# • Fixed dialing

If supported by your SIM card, this feature lets you restrict your outgoing calls to phone numbers included in the fixed dialing list or beginning with the same digit(s) as an entry in the list.

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

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

## Turn fixed dialing on or off

1 Press **Menu** 4 6 4.

2 Scroll to **On** or **Off**, then press **OK**.

3 Enter your PIN2 code, then press **OK**.

## Add numbers to the fixed dialing list

1 Press **Menu** 4 6 4.

2 Scroll to **Numbers**, then press **OK**.

3 Scroll to **Add**, then press **Select**.

4 Enter your PIN2 code and press **OK**.

5 Enter a name to go with the restricted phone number, then press **OK**.

6 Enter the phone number you want to restrict, then press **OK**.

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



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# • Restricting calls++

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

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

## Turn on call restrictions

1 Press **Menu** 4 6 3.

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

**Outgoing calls**: Calls cannot be made.

**International calls**: Calls cannot be made to foreign countries.

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

**Incoming calls**: Calls cannot be received.

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

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

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

3 Scroll to one of the following options:

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

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

**Status**: The phone lists the call types with call restriction active.

4 Press **OK**.

For more information about your restriction password, see "Restricting calls++" on page 71.



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## • Set up a closed user group++

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

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



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# 13. Select a system

You can select how your phone chooses a wireless network, as there may be more than one available. The selection you make stays active until you change it or change the SIM card.

1 Press **Menu** 4 5 4.

2 Scroll to **Automatic** or **Manual**, **then** press **Select**.

- **Automatic**: The phone automatically selects one of the available systems.
- **Manual**: The phone searches for available systems and then lists them. Scroll to the one you want, then press **Select**. The phone looks for a network and displays the result. If you lose connection while in **Manual** mode, the phone asks you to select a network again.



Petitioner Samsung Ex-1011, 0082

# 14. Text messages++

The text message network service allows you to send short text messages to other phones that have text message capability. You can also ask the service provider to convert the message to other formats such as e-mail and fax.

## • Set up text messaging

Before you can send and receive text messages, you must:

- Have a text message subscription through your service provider.
- Know your text message center number.
- Save your text message center number in your phone.

### Save your message center number

1 Press **Menu**.

The **Messages** menu appears.

2 Press **Select**.

3 Scroll to **Message settings**, then press **Select**.

4 Choose the set of message settings you want to use (the first one is the default), then press **Select**.

**Message center number** appears.

5 Press **Select**.

6 Enter your message center number, then press **OK**.



Petitioner Samsung Ex-1011, 0083

# • Writing messages

## Using standard text input

When you select this mode, the ABC icon appears as visual confirmation.

1 Find the key that is below the letter you want to enter.

2 Press it as many times as needed for the letter to appear on the screen.

For example, to enter the name John:

| | | |
|---|---|---|
| Press | 5jkl | J |
| Press | 6mno 6mno 6mno | O |
| Press | 4ghi 4ghi | H |
| Press | 6mno 6mno | N |

See "Standard text input" on page 26 for more information.

## Using predictive text input

Predictive text input is the default mode. This method allows you to write text using a built-in dictionary. You can also add new words to the dictionary. With predictive text input, you only need to press each number key once for each letter.

For example, to write *Nokia* with the English dictionary selected:

6mno (for N) 6mno (for o) 5jkl (for k) 4ghi (for i) 2abc (for a)

The display shows the above words for each key pressed.

Since the displayed word changes after each key stroke, disregard the word until you have keyed in all the characters.



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## Predictive text input tools

| | |
|---|---|
| 2abc – 9wxyz | Use for word entry. Press each key only once for each letter. |
| * + | Press to view the next matching word if the underlined word is not the word you intended. |
| Spell | Press to add a new word to the dictionary. |
| 0 ␣ | Press once to accept a word and add a space. |
| # ⇧ | Press and hold to enter a number. 123 indicates that you can input numbers. |
| # ⇧ | Press to change the character case. ABC indicates uppercase. abc indicates lowercase. |
| # ⇧ | Press to select predictive input or standard text input. ABC and abc indicate standard text input. ABC, Abc, and abc indicate predictive text input. |
| Clear | Press once to delete the character to the left of the cursor. |
| 1 ∞ | Press once to add a punctuation mark. To change the underlined symbol, press * + repeatedly until the desired symbol appears. |
| 160 | Maximum number of characters available. Appears in the top right corner of the screen and counts down for each character added. |

### Select a language and turn on predictive text input

1 Press **Menu**, then press **Select**.



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2 Scroll to **Write messages**, then press **Select**.

3 Press **Options**, scroll to **Dictionary**, then press **OK**.

4 Scroll to the language you want, then press **OK**.

**T9 dictionary activated** appears.

## Turn off predictive text input

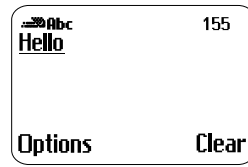
- To switch from predictive text input to traditional text input, repeat steps 1 through 3 above, then select **Dictionary off**.

  OR

- While writing the message, press # ⇧ to switch between predictive text input and standard text input.

## Write with predictive text input

1 Press each key once for each letter. For example, to write "hello" press 4ghi, 3def, 5jkl, 5jkl, 6mno.




- Do not pay attention to the word on the screen until you have finished writing the word.
- Refer to the character counter in the top right of the screen. The counter shows how many characters are available.
- Press **Clear** to delete a character.
- Press # ⇧ to change the character case.
- Press and hold the respective number key to insert a number.
- Press 1 to insert a punctuation mark. If it is not correct, press * + repeatedly to find the desired punctuation mark.



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- To insert a symbol, press and hold *+. The symbol screen appears. Select the desired symbol and press **Insert**.

2 When you have finished writing, check the underlined word to see if it is the word you intended to write.

**If the word is correct**

- Insert a punctuation mark, if needed. Then press 0 to confirm the word, enter a space, and begin writing the next word.

**If the word is not correct**

- Press *+ repeatedly until the desired word appears, then press 0 to confirm the word.

OR

- Press **Options**, scroll to **Matches**, then press **OK**.
- Scroll to the correct word and press **Use**.
- Start writing the next word.

**Note:** When you enter a period to end a sentence, the phone switches to mode so the that the first letter in the next word will be uppercase.

**If the ? character appears after the word**

The word you intended to write is not in the dictionary.

- To add the word to the dictionary press **Spell**. See "Adding the desired word to the match list."

## Add the desired word to the match list

If no matches are found in the predictive text input mode, you can add the word to the dictionary.

1 Press *+ repeatedly until **Spell** appears in place of **Options**.



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2 Press **Spell** and enter the word(s) using standard text input (see "Standard text input" on page 26).

3 Press **OK** to save the word(s).

### Insert numbers

1 To add a number to the message, press and hold # until 123 appears.

2 Key in the desired numbers, then press and hold # to return to **ABC** mode.

### Insert symbols

1 Press and * hold until the symbol screen appears.

OR

Press **Options** and scroll to **Insert symbol**.

2 Select the desired symbol and press **Insert**.

### Write compound words

1 Write the first part of the word and press ▼ to accept it.

2 Write the last part of the compound word and press 0 to enter the word in memory.

## Save messages in the outbox

When you write a text message, it's a good idea to save it in the outbox. Then if there is a message delivery problem, you can easily resend the message.

1 While writing the message, press **Options**.

2 Scroll to **Save**, then press **OK**.

## Send the text message

1 Press **Menu** 1 3.

**Write messages** appears briefly, followed by the message screen.



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2 Enter a message of up to 160 characters.

The number of available characters appears in the top right corner of the screen.

3 Once you have finished writing, press **Options**, scroll to **Send**, then press **OK**.

4 Enter or recall the recipient's phone number, then press **OK**.

**Sending message** appears.

When the message is successfully sent, **Message sent** appears.

**Note:** If you need to exit while writing the message, press anytime. Later, press **Menu** 1 3 to return and finish writing the message. If you turn off the phone without saving the message, the message will be lost.

# • Resend a message from the outbox

Messages in the outbox have one of two icons in front of them. The icon in front of a message heading shows that you have attempted to send the message to the text message center. The icon shows that you have not yet tried to send the message.

1 Scroll to the message, then press **Read**.

2 Press **Options**.

3 Scroll to **Forward** and press **OK**.

4 Press Options.

**Send** appears already highlighted.

5 Press **OK** to send the message.



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# • Read text messages

## Read new text messages now

When you receive a text message, the phone displays **Message received** and the ✉ indicator, and makes a sound (depending on the "Message alert tone"; see page 62).

1 To read the message, press **Read**.

   This takes you to the Inbox, with the new message selected.

2 Press **Read** again to read the message.

## Read new text messages later

1 Press **Menu** 1 1.

   A list of message headers is displayed. The 🗋 icon in front of the header indicates that a message has been read. The ✉ icon indicates that a message has not yet been read.

2 Scroll to the message you want, then press **Read**.

3 If the message is long, use the scroll keys to scroll through the message.

The text of the message is followed by the sender's name or phone number, reception date, and time

# • Erase a message

1 While reading the message, press **Options**.

2 Scroll to **Erase**, then press **OK**.

   Your phone asks you to confirm that you want to erase the message.

3 Press **OK**.



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## • Reply to a message

1 Press **Options**.

2 Scroll to **Reply**, then press **OK**.

3 Enter your message, then press **Options**.

4 Scroll to **Send**, then press **OK**.

The phone displays the return number.

5 Edit the number if needed, then press **OK**.

## • Forward a message

1 Press **Options**.

2 Scroll to **Forward**, then press **OK**.

The message text appears.

3 Edit the message if necessary, then press **Options**.

**Send** appears already highlighted.

4 Press **Send**.

The **Number** box appears.

5 Enter the recipient's phone number, then press **OK**.

OR

- Press **Search** to recall a stored name and phone number, then press **OK**.
- Press **OK** again to confirm.

## • Use number

You can save or dial a phone number that is included in a message.

1 Press **Options**.



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2 Scroll to **Use number**, then press **OK**.

3 If more than one number is shown, scroll to the one you want, then press **OK**.

The phone displays the number on the screen. You can dial it or save it as if you had entered it yourself.

# • Message settings

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

## Change settings for some messages

1 Press **Menu** 1 5.

2 Scroll to the set you want to change the settings for, then press **Select**.

3 Scroll to one of these options:

**Message center number**: Get this number from your wireless service provider. Enter the message center phone number and press **OK**, or press **Search** to get the number from your phone book (if it is saved there).

**Messages sent as**: Scroll to **Text**, **Fax**, **Page**, or **E-mail**, then press **OK**. (In order to receive a converted message, the recipient needs to have the appropriate terminal device.)

**Message validity**: The amount of time that messages should be stored at the message center while the network attempts to deliver them. Choose a time, then press **OK**.

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

4 Press **Select**.



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## Change common settings for all messages

1 Press **Menu** 1 5.

2 Scroll to **Common**, then press **Select**.

3 Scroll to **Delivery reports** or **Reply via same center**, then press **Select**.

**Delivery reports**: Scroll to **Yes** or **No**, then press **OK**. **Yes** means that the network tries to send delivery reports for the messages you send.

**Reply via same center**: The network tries to route the reply to this text message through your own message center.

# • Message storage

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

**Note:** Depending on your SIM card, the inbox and outbox can contain a total of up to 30 messages.

# • Picture messages

Using **Menu** 1 4, you can send picture messages with your phone. There are several images included in your phone, and also space for one additional picture. All images can be replaced or deleted.

**Note:** Picture messaging must be supported by your service provider and by the receiving phone.

## Send picture messages

1 Press **Menu**, then **Select**.



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2 Scroll to **Picture Messages** and press **Select**.

3 Scroll to the picture you want to send, then press **View**.

The picture appears. To choose a different picture, press **Back**, scroll to another picture, then press **View**.

4 Press **Options** and scroll to **Forward**.

5 Recall or enter the phone number to which you want to send the picture message.

**Note:** The phone number you choose must be able to receive picture messages.

6 Press **OK**.

## Send picture messages with text

1 Press **Menu**, then **Select**.

2 Scroll to **Picture Messages** and press **Select**.

3 Scroll to the picture you want to send, then press **View**.

The picture appears. To choose a different picture, press **Back**, scroll to another picture, then press **View**.

4 Press **Options**, scroll to **Edit text**, and press **Select**.

5 Write a message (up to 121 characters) to go along with the picture, then press **Options**.

**Note:** You can use predictive text input or standard text input to write the message. See "Using predictive text input" on page 75 for more information.

6 Scroll to **Send picture** and press **OK**.

7 Enter the phone number to which you want to send the picture message and press **OK**.

**Sending picture message** appears, followed by **Picture message sent**.

**Note:** The phone number you choose must be able to receive picture messages.



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## Receive picture messages

1 When your phone displays **Picture message received**, press **View** and the message appears.

2 If the picture has a text message with it, scroll up or down to see the entire message.

3 Press **Save** to keep the picture message, or press **Back** and **Exit** to delete it.

## Other picture message options

**Erase**: Deletes the picture you select.

**Use number**: Automatically lets you save any phone number included in the text of the picture message.

**Details**: Shows the phone number of the person who sent you that picture message.



Petitioner Samsung Ex-1011, 0095

# 15. Your personal digital assistant

## • Calendar

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

**Warning:** 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.

### View the calendar

- Press **Menu** 8.

### Enter the date

1 Press **Options**, scroll to **Set the date**, and press **Select**.

2 Enter the current month and day in **mmddyyyy** format, then press **OK**. (Example: Enter December 31, as **12312000**).

**Date is set** appears.

### Enter the time

- Enter the time in **hhmm** format or in 24-hour format.

#### View the calendar

Press **Menu** 8 to see the current day's calendar screen.



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## View day notes

This option allows you to view, erase, edit, move, and send notes made for the selected day. Use the scroll keys to scroll through notes. Options available while viewing a note are **Erase**, **Edit**, **Move** (to another date), **Send note** to send the note, and **Send via IR** to copy the note to another compatible phone using the infrared port.

## Make note

With this option, you can choose from four note types: **Reminder**, **Call**, **Meeting**, or **Birthday**. Your phone asks you for more information depending on which one you choose.

1 Press **Options**, scroll to **Make note**, then press **Select**.

2 Scroll to the desired note type (for example, **Reminder**) and press **OK**.

3 Enter a subject for the reminder and press **OK**.

4 Enter the date for the reminder in **mmddyyyy** format and press **OK**.

5 When **Set an alarm for the note?** appears, choose **Yes** or **No**.

If you choose **Yes:**

- Enter the date for the alarm, then press **OK**.
- Enter the time for the alarm, then press **OK**.
- Choose **am** or **pm**, and press **OK**.

  **Calendar note saved** appears briefly, and then the current day's calendar screen appears.

If you choose **No**:

- **Calendar note saved** appears briefly, and the current day's calendar screen appears.

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

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



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### Erase notes

1 Scroll to **Erase notes** and press **Select**.

2 Scroll to **Of chosen day**, **One by one**, or **All at once**, then press **OK**.

**Of chosen day**: Displays each note for the current day so you can delete the notes individually. Press **Erase** to delete the note, or press the scroll keys to view other notes.

**One by one**: Displays notes in chronological order, with birthdays first, so you can delete them individually. Press **Erase** to delete the note, or press the scroll keys to view other notes.

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

### View all notes

This option lets you scroll through all stored notes. Birthday notes appear first in chronological order, followed by other notes, also in chronological order.

### Go to date

This option takes you directly to the specified date instead of scrolling.

- Enter a date in **mmddyyyy** format, then press **OK**.

### Set the date

This option allows you to set the current date in your phone.

- Enter the date in **mmddyyyy** format, then press **OK**.

## Send/receive calendar notes

When someone sends you a note, your phone displays **Calendar note received**. You can save the note in your calendar and work with it in the same way as any other note in your calendar, including setting an alarm.

For information on sending calendar notes, see "Send information via IR" on page 96.



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### View received calendar notes

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

1 When your phone displays **Calendar note received**, press **Options**. **Show** is selected.

2 Press **OK**.

3 Scroll through the note.

### Save received calendar notes

1 After viewing the calendar note, press **Back**.

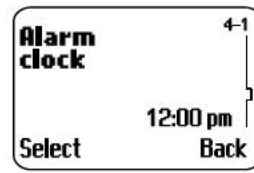
2 Scroll to **Save**, then press **OK**

### Discard viewed calendar notes

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

# • Alarm clock

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




## Set the alarm clock

1 Press **Menu** 4 1.

2 Enter the alarm time in **hhmm** format.

3 Press **OK**.

4 Select either **am** or **pm** and press **OK**.

The icon appears at the top of the screen as a reminder.

**Note:** Step 4 is necessary only if you have selected am/pm format.



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## Manage the alarm

### Phone on

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

OR

- Press **Snooze**.

  The alarm stops and sounds again in 5 minutes.

**Note:** If you let the alarm sound for 1 minute without pressing a key, it stops for 5 minutes, and then sounds again.

### Phone off

The phone switches itself on at alarm time, and then the alarm sounds. If you press **Stop**, the phone displays **Activate phone for calls?**. Press **Yes** to keep it on or **No** to switch it off.

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

## Turn off the alarm clock

1 Press **Menu** 4 1.

2 Scroll to **Off** and press **OK**.

# • Business cards

Your phone can send or receive electronic business cards consisting of a name and phone number. You can save received business cards to your phone book.

## Send a business card

1 Recall the name from your phone book.

2 Press **Details**, if shown, or skip to Step 3.

3 Press **Options**.



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4 Scroll to **Send bus. card**.

5 Press **Select**.

6 Enter or recall the phone number to which you want to send the business card.

7 Press **OK**.

## Send a business card using IR

1 Recall the name from your phone book.

2 Press **Details**, if shown, or skip to Step 3.

3 Press **Options**.

4 Scroll to **Send via IR** and press **Select**.

5 Activate the IR port on the receiving phone.

The phone sends the business card through its IR port.

## View a received business card

When you receive a business card, the phone displays **Business card received**.

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

1 When your phone displays **Business card received**, press **Options**. **Show** is selected.

2 Press **OK** to read the information.

## Save a viewed business card

1 After viewing the business card, press **Back**, scroll to **Save**, then press **OK**.

2 At the **Name:** prompt, edit the name if you want to, then press **OK**.

3 At the **Number:** prompt, edit the number if you want to, then press **OK**.



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## Delete a viewed business card

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

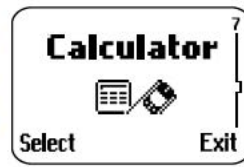
# • PC Suite

With the PC Suite you can write text messages or manage your phone's memory on a compatible PC. You can add, delete, and copy names and phone numbers in the PC Suite and then transfer the revised data to your phone via the infrared port.

The setup software allows installation on any compatible PC running Windows 95/98. You can download the PC Suite and get more information at **www.NokiaUSA.com**.

# • Calculator

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




**WARNING!** 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.

## Use the calculator

1 Press **Menu** 7.

2 Enter the first number in the calculation.

- Press #◇ to enter a decimal point and press **Clear** to erase any mistakes.
- To add, press *+ once (+ appears)
- To subtract, press *+ twice (- appears)



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- To multiply, press * + three times (* appears)
- To divide, press * + four times ( / appears)

3 Enter the second number, repeating steps as needed.

4 Press **Options**.

**Equals** is selected.

5 Press **OK**.

# Convert currency

## Set the exchange rate

1 Press **Menu** 7, then press **Options**.

2 Scroll to **Exchange rate**, then press **OK**

3 Scroll to **How many home units to a foreign unit** (to enter the number of domestic units to a foreign unit) or **How many foreign units to a home unit** (to enter the number of foreign units to a domestic unit).

4 Press **OK**.

5 Enter the exchange rate (press # ⇧ to enter a decimal point).

6 Press **OK**.

## Convert a currency amount

1 Enter the amount to be converted.

2 Press **Options**.

3 Scroll to **In home curr.** to convert to domestic units or **In foreign curr.** to convert to foreign units.

4 Press **OK**.



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# 16. Your phone and other devices

## • Fax and data calls++

The Nokia 8890 phone can make data and fax calls when you connect a compatible device via the IR port.

With the PC Suite for Nokia 8890, you can write text messages or manage your phone's memory on a compatible PC. For more details, refer to the documentation supplied with your PC Suite for Nokia 8890 and communications applications.

### Make a fax or data call

1 From the Messages menu, select **Fax and data** or **Also voice** and press **OK**.

**Also voice** allows you to switch from voice mode to data (or fax) mode during a call.

2 Enter or recall the desired phone number and press **OK**.

3 If you selected **Also voice** in step 1, to switch between voice and data/fax mode during a call, press **Options**, select **Voice Mode** or **Data Mode** (or **Fax Mode**), and press **OK**.

4 After the transmission, end the call by pressing .

### Receive a data or fax call

You can answer a data or fax call in the usual way, even when the phone keypad is locked.



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# • Send information via IR

You can set up your phone to receive data through its infrared (IR) port. To use an IR connection, the device with which you want to establish a connection must be IrDA compliant.

## Prepare the devices for infrared connection

- The IR ports of the two devices must point at each other.
- There must be no obstructions between the two devices.
- The two devices must be within 2 feet of each other.

## Receive data via the IR port

To receive data from another compatible phone:

1. Make sure that the two devices are ready for the IR connection.
2. Select the **Infrared** menu to activate the IR port for data reception.
3. Have the user of the sending phone select the desired function to start data transfer.

If data transfer is not started within 45 seconds, the connection is cancelled and will have to be restarted.

## Send data via the IR port

On a PC provided with an appropriate application, you can:

- Send a caller group graphic via IR.
- Copy and print names and numbers from the phone book.
- Print a text message on a compatible printer.
- Send a calendar note via IR.
- Print a calendar note on a compatible printer.



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## Check the status of an IR connection

The status of an IR connection is indicated by ▷••• .

- When ▷••• is displayed continuously, there is an IR connection between your phone and the other device.
- When ▷••• blinks, your phone is trying to establish a connection with the other device or a connection has been lost.
- When ▷••• is not displayed, no IR connection exists.

# • Print using IR

You can print stored text messages or phone book entries using any printer set up for printing through an IR port.

## Print text messages

1 Press **Menu**, then press **Select**.

2 Scroll to where the text message is stored (inbox or outbox) and press **Select**.

3 Scroll to the message you want to print and press **Read**.

4 Press **Options** and scroll to **Print via IR**.

5 Align the phone's IR port with the printer's IR port.

**Note:** Be sure the phone is within 3 feet of the printer's IR port and that there are no obstructions between the printer's IR port and the phone's IR port.

6 Press **OK**. When the message is successfully transmitted to the printer, the phone displays **Message printed**.



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## Print phone book entries

1 Recall the name/number you want to print.

2 Press **Details**, then press **Options**.

3 Scroll to **Print via IR**.

4 Align the phone's IR port with the printer's IR port.

**Note:** Be sure the phone is within 3 feet of the printer's IR port and that there are no obstructions between the printer's IR port and the phone's IR port.

5 Press **Select**.

When the name/number is successfully transmitted to the printer, the phone displays **Business card printed**.



Petitioner Samsung Ex-1011, 0107

# 17. Fun and games

## • Games

Challenge yourself or a friend to the four fun games in your phone.

**Warning:** 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.

### Snake

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

#### Start a two-player game

Snake can be played as a two-player game using the IR ports of two phones.

Before starting a two-player game, make sure that the IR ports of the two devices are pointing at each other and that the IR connection is activated. Both players need to start the same game on their phones.

### Logic

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

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



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## Memory

Memory is like the old card game in which you lay cards face down on the floor and try to turn up matching pairs.

Move the cursor with the 2, 4, 6, and 8 keys. Press the 5 key to reveal a card. Press the # key to jump to the right over revealed cards, or move from the bottom right of the screen to the top left. Press the * key to jump to the left over revealed cards, or move from the top left of the screen to the bottom right. Once you match two cards, they remain "turned up."

## Rotation

Arrange the numbers in numerical order starting from 1. Rotate the numbers inside the frame counterclockwise with the 1 key and clockwise with the 3 key. Move the frame to another position with keys 2, 4, 6, and 8.

# • Download ringing tones++

You can download up to five ringing tones to replace the **Personal** entries in your list of ringing tones. For details about this network service, contact your wireless service provider.

## Notification of received ringing tone

When your phone receives a ringing tone, it displays **Ringing tone received**.

## Listen to received ringing tones

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

1 When your phone displays **Ringing tone received**, press **Options**. **Playback** is selected.

2 Press **OK**.

The phone plays the ringing tone.



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## Save received ringing tones

1 After listening to the ringing tone, press **Back**.

2 Scroll to **Save tone**, then press **OK**.

3 Choose which ringing tone you want to replace (either an empty **Personal** place holder, if any are remaining, or a previously downloaded tone), then press **OK**.

The tone is saved to your list of ringing tones.

## Discard received ringing tones

If you don't want to save the ringing tone, press **Exit** without saving it, or scroll to **Discard**, then press **OK**.



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# 18. Reference information

## • Batteries, chargers, and accessories

This section provides information about the phone's batteries, accessories, and chargers. Be aware that the information in this section is subject to change as the batteries, chargers, and accessories change.

This phone is intended for use when supplied with power from an ACP-7U, an ACP-8U, or an LCH-9 charger. Other usage could invalidate any approval given to this apparatus and might be dangerous.

**Warning!** When you purchase batteries, chargers, and accessories for your phone, use *only* batteries, chargers, and accessories that have received approval from the phone's manufacturer. The use of any other type of phone-related hardware may invalidate any approval or warranty applying to the phone, and could also be dangerous. For availability of approved batteries, chargers, and accessories, check with your dealer.

**Note:** For information on how to charge and recharge your battery, refer to "Charge the battery" on page 10.

When the battery is fully charged, the indicator will tell you that the battery is fully charged.

When you are not using a charger, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging could shorten its life span. If left unused, a fully-charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge. Therefore, allow it to cool down or warm up before trying to charge it.



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When the battery is running out of power and your phone only has a few minutes of talk time remaining, a warning tone sounds and the **Battery low** message appears briefly. When no more talk time is left, a warning tone is sounded and the phone switches itself off.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object, like a coin, a clip, or a pen causes a direct connection of the + and - terminals of the battery, which are metal strips on the back of the battery.

An example of short-circuiting could occur if you carry a spare battery in your pocket or purse, where the battery could come into contact with objects such as a coin. Short-circuiting could damage either the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in either summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F).

A phone with a hot or cold battery might not work temporarily, even if the battery is fully charged. The performance of Li-Ion batteries is particularly limited in temperatures below 0°C (32°F).

The following list provides guidelines that you can follow:

- When the operating time (talk time and standby time) is noticeably shorter than normal, buy a new battery.
- Use the battery only for its intended purpose.
- Never use any charger or battery that is damaged and/or worn out.
- Batteries *must* be recycled or disposed of properly. Do *not* dispose of batteries by putting them in fire!
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.



Petitioner Samsung Ex-1011, 0112

# • Important safety information

This section provides additional safety information. A brief overview of safety can be found in "For your safety" on page 1.

## Traffic safety

Do not use a hand-held telephone while driving a vehicle. Always park the vehicle before using the phone.

After completing your phone conversation, always secure the phone back into its holder; do *not* place the phone on the passenger seat or place it where it can break loose in a collision or during a sudden stop.

**Note:** The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

**Remember:** Safety—Your most important call.

## Operating environment

Remember to follow any special regulations that are in force in any area, and always switch off your phone wherever it is forbidden to use it. Otherwise, the use of your phone could cause interference or danger.

When connecting the phone or any accessory to another device, read the associated user guide first and obtain detailed safety instructions.

**Note:** Do *not* connect incompatible products.

As with other mobile radio transmitting equipment, you are advised that, for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the phone should *only* be used in the normal operating position. This position is when the phone is held to your ear with the antenna pointing over your shoulder.



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# Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment might not be shielded against the RF signals from your wireless phone. The following four subsections provide more information about this topic.

## Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 6 inches (20 cm) should be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- Should always keep the phone more than 6 inches (20 cm) from their pacemakers 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.

**Note:** If you have any reason to suspect that interference is taking place, switch off your phone immediately.

## Hearing aids

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

## Other medical devices

Operation of any radio transmitting equipment, including cellular phones, could 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. Also contact these authorities if you have any questions.



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

### Vehicles

RF signals could improperly affect installed or inadequately shielded electronic systems in motor vehicles. These could include electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, or 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 if you are in any area that has 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.

You are advised to switch off the phone while at a refueling point (service station). And, you are reminded of the need to observe restrictions regarding the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often—but not always—clearly marked. These areas include the following: below deck on boats; chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.



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## Vehicles

Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service could be dangerous and might invalidate any warranty that could apply to the unit.

Regularly check 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 its accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both the installed or the portable wireless equipment, in the area over the air bag or in the air bag deployment area. If the 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, may disrupt the wireless telephone network, and may be illegal.

Failure to observe these instructions could lead to the suspension or the denial of telephone services to the offender, or it could result in legal action, or both scenarios could apply.

# • Emergency calls

IMPORTANT!

This phone, like any wireless phone, operates using radio signals, wireless and landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore, you should *never* rely solely on any wireless phone for essential communications (for example, medical emergencies).

Remember, to make or receive any calls, the phone must be switched on and be used in a service area that has adequate signal strength. Emergency calls might 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.



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Always make sure that your phone is properly charged before attempting any emergency calls. If you allow your battery to become empty, you will be unable to receive or make calls, including emergency calls. You must then wait a few minutes after the charging begins to place any emergency calls.

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

3 Press .

If certain features are in use (Keyguard, fixed dialing, restrict calls, and so on), you might 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 of the necessary information as accurately as possible. Remember that your wireless phone might be the only means of communication at the scene of an accident—*do not* terminate the call until given permission to do so.

## Radio Frequency (RF) Signals

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.



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The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.94 W/Kg and when worn on the body, as described in this users guide, is 0.57 W/Kg with the carrying case. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID LJPNSB-6NY.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only Nokia approved accessories. When carrying the phone while it is on, place the phone in the specific Nokia carrying cases that have been tested for compliance.

Use of non-Nokia-approved accessories may violate FCC RF exposure guidelines and should be avoided.

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* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.



Petitioner Samsung Ex-1011, 0118

# Care and maintenance

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

When using your phone, battery, charger, or any accessory:

- Keep it and all its parts and accessories out of the reach of small children.
- Keep it dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits.
- Do not use or store it in dusty, dirty areas as its moving parts can be damaged.
- Do not store it in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store it in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which could damage the phone's electronic circuit boards.
- Do not attempt to open it. Non-expert handling of the device could 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 that has been slightly dampened in a mild soap-and-water solution.
- Do not paint it. Paint can clog the device's moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.

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



Petitioner Samsung Ex-1011, 0119

# • Accessories

If you want to enhance your phone's functionality, a range of accessories is available for you. You can select any of these items to help accommodate your specific communication needs. For availability of these and other accessories, contact your service provider.

## A few practical rules for accessory operation

- Keep all accessories out of reach of small children.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that any vehicle-installed accessories are mounted and are operating properly.
- Installation of any complex car accessories *must* be made by qualified personnel only.
- Use only batteries, chargers, and accessories that have been approved by the phone manufacturer. The use of any other types could invalidate any approval or warranty applying to the phone, and could be dangerous. Refer to "Batteries, chargers, and accessories" on page 102 for important battery usage information.



Petitioner Samsung Ex-1011, 0120

# • Batteries

This section provides information about the phone's batteries. Be aware that the information in this section is subject to change.

**Note:** This is a lithium ion (Li-Ion) battery. Dispose of used batteries in accordance with any local regulations.

The tables shown in this section provide information about battery options that are available for your phone, charging times with the Rapid Travel Charger (ACP-8U), the Standard Travel Charger (ACP-7U), talk times, and standby times. Consult your service provider for more information.

**Note:** The charging times listed in the next section are approximate.

## Charging Times

| Battery option | ACP-7U Charger | ACP-8U Charger |
|---|---|---|
| BLB-2 Li-Ion Battery 650 mAh | 2 hrs 25 min | 1 hr 40 min |

**Note:** The times displayed above allow your battery to obtain approximately 80% of its capacity. When this happens, the battery scroll bars on your phone's screen stop scrolling. If you want to obtain 100% battery capacity, allow another 2 hours for a "trickle" or "maintenance" charge.

## Standby and Talk Times

| Battery option | Digital talk time | Standby time |
|---|---|---|
| BLB-2 Li-Ion Battery 650 mAh | 2 hrs to 3 hrs 20 min | 50 to 150 hrs |

**Note:** The above times are approximate. Battery operation times vary according to signal conditions, network parameters that are set by the service provider, and how you use your phone.



Petitioner Samsung Ex-1011, 0121

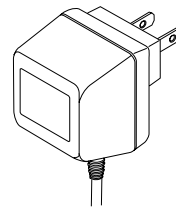
# • Chargers and other accessories

This section provides information about the phone's chargers and accessories. Be aware that the information in this section is subject to change as the chargers and accessories change.

The chargers and accessories that are described in this section are available for your phone. Contact your dealer for details. Also, refer to the accessories brochure that was included in your sales package for the entire line of Nokia Original Accessories.

**Note:** When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since overcharging the battery could shorten its life span. If left unused, a fully charged battery will discharge itself over time.

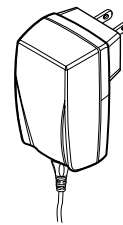
## Standard Travel Charger (ACP-7U)



This is a lightweight (187g) and durable AC charger.

To use the Standard Travel Charger, plug it into a wall outlet and connect the lead from the charger to the base of your phone.

## Rapid Travel Charger (ACP-8U)



This is a lightweight (100g) and durable AC charger. Calls can be made during charging, even with a fully discharged battery.

To use the Rapid Travel Charger (ACP-8U), plug it into a standard 120V or 220V AC wall outlet, and connect the lead from the charger to the base of your phone.

The charger can also be used together with the optional Desktop Charging Stand. Approximate charging times for discharged batteries are shown in "Charging Times" on page 112.



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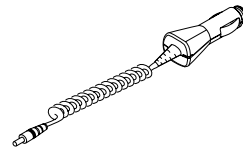
## Rapid Cigarette Lighter Charger (LCH-9)



You can charge your phone's battery from your vehicle battery by using the Rapid Cigarette Lighter Charger (LCH-9). You can also use this lightweight charger with the Desktop Charging Stand.

Calls are possible during charging. A green light indicates that the charger is ready for charging (when not charging) or finished charging (if it has been charging). The battery charging times are the same as those for the Rapid Travel Charger (ACP-8U).

The input voltage range is from 11 to 32V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger (LCH-9) when the car engine is not running; this could cause your car battery to drain. Note also, that in some cars, the cigarette lighter plug is not provided with electricity if the ignition is not switched on.

## Compact Desktop Charging Stand (DCV-1)

Used together with the Standard Travel Charger (ACP-7U) or the Rapid Travel Charger (ACP-8U), the Desktop Charging Stand is an economical choice when you need your phone close at hand, always ready for calls.

This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.



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# 19. Technical information

| | |
|---|---|
| Weight | 3.2 oz. with BLB-2 battery |
| Transmitting power | GSM900, 2 W nominal<br>GSM1900, 1 W nominal |
| Operating voltage | 3.6V DC<br>12V DC for car kit |
| Networks | EGSM 900 and GSM 1900 |
| Frequency band | GSM900:<br>890 to 915 MHz (TX)<br>935 to 960 MHz (RX)<br>GSM1900:<br>1850 to 1910 MHz (TX)<br>1930 to 1990 MHz (RX)<br>EGSM:<br>880-890 MHz (TX)<br>925-935 MHz (RX) |
| Number of channels | EGSM: 50<br>GSM 900: 124<br>GSM 1900: 299 |
| Memory locations | 250 in phone |



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# 20. Troubleshooting

This section provides a table that lists some of the most commonly encountered problems and provides possible solutions.

| Problem | Possible cause | Possible solution |
|---|---|---|
| **My phone isn't charging.** | The charger and the phone are not properly connected. | Securely connect the charger to the phone. |
| | The charger is not properly plugged in. | Make sure that the charger is plugged in correctly. |
| **My phone isn't making/answering calls.** | The battery is not charged. | Charge the battery. |
| | The signal strength is poor. | If you are indoors, move toward a window. |
| **I can't listen to my voice messages.** | You don't have voice mail service. | Call your wireless service provider. |
| | You have not set up your voice mailbox with your service provider. | Call your wireless service provider. |
| | You have not saved your voice mail number in your phone. | Refer to "Voice mail++" on page 35. |
| | The voice mail number you have saved is incorrect. | Call your wireless service provider. |
| | You have forgotten your password or are entering it incorrectly. | Call your wireless service provider. |



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# 21. Frequently asked questions (FAQ)

This section lists and answers the questions that you most frequently ask. Where necessary, the answers refer you to the appropriate section within this guide.

**Note:** Some of the answers tell you to use menu shortcuts. For a complete listing of these shortcuts, refer to "List of menu shortcuts" on page 22.

**Q. How do I lock my phone?**

A. Press **Menu** 4 6 1, press **Select**, enter your PIN code, and press **OK**. Scroll to **On** and press **OK**.

Refer to "PIN and PUK codes" on page 67 for more information.

**Q. How do I unlock my phone?**

A. Press **Menu** 4 6 1, press **Select**, enter your PIN code, and press **OK**. Scroll to **Off** and press **OK**.

Refer to "PIN and PUK codes" on page 67 for more information.

**Q. What is my lock code?**

A. The lock code enables you to lock your phone, thus preventing someone else from using it. The default lock code is 1234 (depending on your service provider). However, it is suggested that you change this code *immediately*.

Refer to "PIN and PUK codes" on page 67 for more information.



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**Q. What is my security code?**

A. The default security code is 12345. However, it is suggested that you change this code *immediately*. Certain features can be used *only* after the correct security code has been successfully entered.

Refer to "Security code" on page 69 for more information.

**Q. How do I lock the keypad?**

A. There are two ways you can lock the keypad:

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

OR

- Leave the sliding cover open and press **Menu** *+.

Refer to "Lock the keypad (Keyguard)" on page 66 for more information.

**Q. How do I unlock the keypad?**

A. There are two ways you can unlock the keypad:

- With the sliding cover closed, press **Unlock** and **OK**.

OR

- With the sliding cover open, press **Menu** *+.

Refer to "Lock the keypad (Keyguard)" on page 66 for more information.

**Q. How can I close the sliding cover without disconnecting the call?**

A. Press **Options**, then close the sliding cover to stay connected. Also, this feature makes it easier to use accessories, such as a headset.

Refer to "Use the sliding cover" on page 17.

**Q. How do I make the ringing louder?**

A. Press **Menu** 3 1 2 3, press **Select**, scroll to the volume level desired, then press **OK**.

Refer to "Profiles" on page 59 for more information.



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**Q. How do I change the ringing tone?**

A. Press **Menu** 3 1 2 2 and press **Select**. Scroll through the list of ringing tones until you find the one you want, then press **OK**.

Refer to "Profiles" on page 59 for more information.

**Q. How do I store my voice mailbox number?**

A. Press **Menu** 1 9 2. Enter your voice mailbox number, then press **OK**. This number can be up to 32 digits long.

This voice mailbox number is valid unless your phone number changes. If your phone number changes, you will have to save a new voice mailbox number.

Refer to "Save the voice mailbox number" on page 36 for more information.

**Q. How do I call my voice mailbox number (retrieve voice messages)?**

When your phone alerts you to new voice messages, press **Listen** and follow the prompts. If you'd rather listen later, press **Exit**.

To listen to your voice messages at a later time, perform one of the following actions:

- If you've saved your voice mailbox number in your phone, press and hold 1 to call your voice mailbox.
- Call your voice mailbox number as you would any other telephone number, then follow the directions provided.

See "Voice mail++" on page 35 for more information.

**Q. How do I find my phone's model number?**

A. Turn off your phone, then remove the battery from the back of the phone. Read the sticker that is inside and you will find, after the word *Model*, your phone's model number.

**Q. How do I redial the last-dialed number?**

A. Press twice. See "Redial the last-dialed number" on page 19.



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**Q. How do I assign a key to 1-touch dialing?**

A. Press **Names**, scroll to **1-touch dialing**, and press **Select**.

Scroll to the number you want to assign a 1-touch dial number and press **Assign**.

**Note:** If you have numbers saved in SIM memory, the first nine numbers are stored automatically stored in keys 1 through 9 as 1-touch dial numbers.

Scroll to the phone book entry that you want to assign to this key and press **Select**.

Repeat these steps as many times as necessary. Refer to "1-touch dialing" on page 51 for more information.

**Q. How do I find out how many memory locations the phone has?**

A. Press **Names** and scroll to **Options**.

Press **Select**.

Scroll to **Memory status** and press **Select** again. A message appears that says **Phone: xx free, xx in use** where xx indicates the amount of memory locations. Scroll to see SIM card memory status.

**Q. How do I find my phone's IMEI number?**

A. Turn your phone off, open the rear sliding cover, then remove the battery. Your phone's IMEI number is printed on the sticker inside the battery cover, under the first bar code. Or press * + # ⇧ 06 # ⇧.

**Q. How can I change the contrast of my phone's display?**

A. The contrast of your phone's display is fixed and *cannot* be changed.



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# 22. NOKIA One-Year Limited Warranty

Nokia Mobile Phones, Inc. (“NMP”) warrants that this cellular phone (“Product”) is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

1. The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product.

2. The limited warranty extends to the original purchaser of the Product (“Consumer”) and is not assignable or transferable to any subsequent purchaser/end-user.

3. The limited warranty extends only to Consumers who purchase the Product in the United States.

4. During the limited warranty period, NMP will repair, or replace, at NMP’s option, any defective parts, or any parts that will not properly operate for their intended use with new or factory rebuilt replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge wi l be made to the Consumer for any such parts. NMP will also pay for the labor charges incurred by NMP in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. NMP’s limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. NMP shall not be liable for any other losses or damages. These remedies are the Consumer’s exclusive remedies for breach of warranty.



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5. Upon request from NMP, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

6. The Consumer shall bear the cost of shipping the Product to NMP in Melbourne, Florida. NMP shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

7. The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

a) The Product has been subject to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of NMP, including damage caused by shipping.

b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, or damage caused by the connection to other products not recommended for interconnection by NMP.

c) NMP was not advised by the Consumer in writing of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

d) The Product serial number plate or the accessory data code has been removed, defaced or altered.

e) The defect or damage was caused by the defective function of the cellular system, by inadequate signal reception by the external antenna, or by viruses or other software problems introduced into the Product.

8. Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:



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a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.

b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:

Nokia Mobile Phones, Inc.
Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901

c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.

d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

e) NMP will repair or authorize the repair of the Product under the limited warranty within 30 days after receipt of the Product by NMP or an NMP authorized service center. If NMP cannot perform repair covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, NMP at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage.

f) If the Product is returned to NMP during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned to NMP after the expiration of the limited warranty period, NMP's normal service policies shall apply and the Consumer will be responsible for all shipping charges.



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9. The Product consists of newly assembled equipment that may contain used components that have been reprocessed to allow machine compliance with Product performance and reliability specifications.

10. ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NMP SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NMP KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NMP SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

11. Some states do not allow limitation of how long an implied warranty lasts, so the above one-year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

12. NMP neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.



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13. This is the entire warranty between NMP and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, and all communications relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.

14. This limited warranty allocates the risk of failure of the Product between the Consumer and NMP. The allocation is recognized by the Consumer and is reflected in the purchase price of the Product.

15. Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following delivery of the Product.

16. Questions concerning this limited warranty may be directed to:

Nokia Customer Care Center
7725 Woodland Center Blvd., Ste. 150
Tampa, FL  33614
Telephone: 1-888-NOKIA2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY Users: 1-800-24NOKIA (1-800-246-6542)

17. The limited warranty period for NMP supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

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Para obtener un manual del usuario en español favor de llamar o enviar un fax al teléfono 1-888-NOKIA2U, fax 813-249-9619.



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