

Nokia 8890 Owner's Manual version 0.08

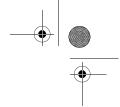
To do:

- Add headset to "voice dialing" section and review with Georg.
- Complete illustrations on pages 91, 92, and 118.
- Check feasibility of generating index











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

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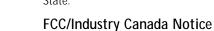
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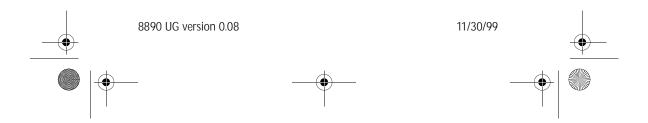
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Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you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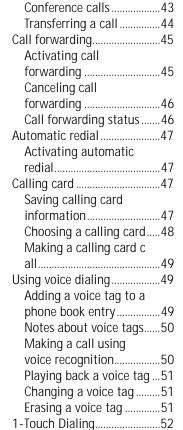












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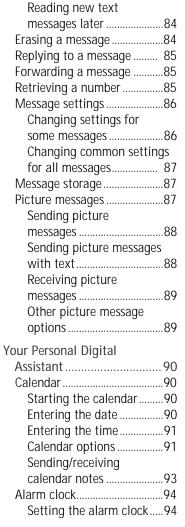












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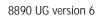




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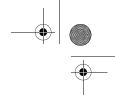




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For Your Safety



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 108.



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.









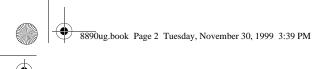


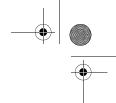
















Accessories and Batteries

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



Connecting to Other Devices

When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products. Remember to make backup copies of all important data.



Making Calls

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



Emergency Calls

Ensure 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



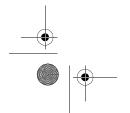
Infrared Precautions

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

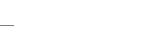


If you remove your battery (refer to "Removing the battery" on page 11) you can find the phone's label on the back portion of the phone. This label includes various information about the phone, like the model number.

If you ever have to call Nokia (refer to "Contacting Nokia" on page 7) or your Service Provider (refer to "Contacting Your Service Provider" on page 8), you might be asked for this information. Therefore, do *not* remove the phone's label.



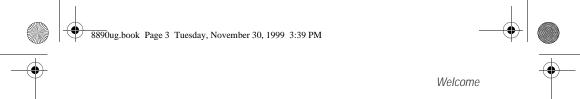












Welcome

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 contacting Nokia.

Using this guide

For clarity, this guide uses various icons and terms. These icons and terms are described in "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	
bold italic	Indicates emphasized text. Example: You <i>cannot</i> use your phone without this card.	
bold	Indicates one of the following items:	
	Text displayed on your phone's screen. Example: Select or Silent.	
	Special text such as Notes and Warnings.	
	A Web link Example: Nokia's World Wide Web site at www.nokia.com.	

[3]



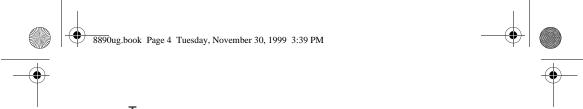












Terms

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."

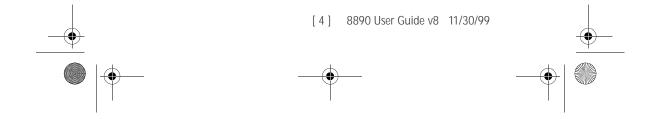
Press and hold means to press and hold a button for one to three seconds (depending on the feature being used), then release the button.

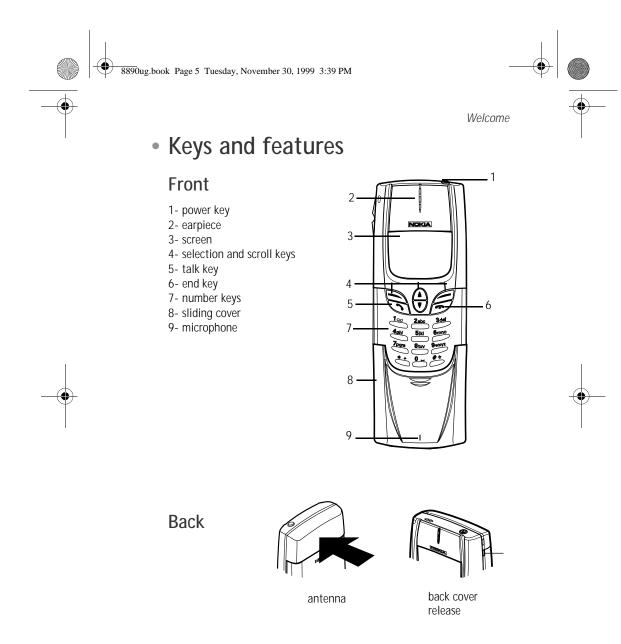
Accessing this guide online

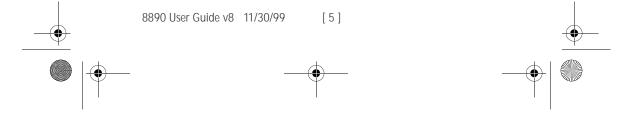
The latest version of this Owner's guide might be available on Nokia's World Wide Web site at **www.nokia.com**. Go to **Phones**, **US link**, and then perform a search to access this documentation.

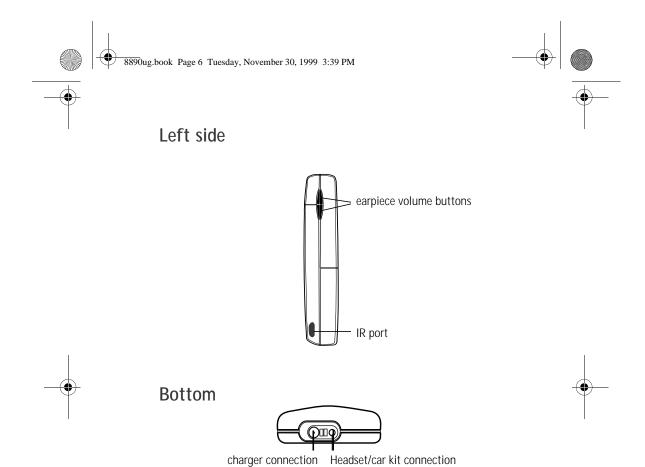


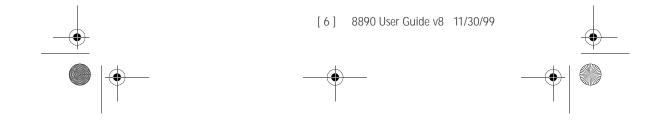


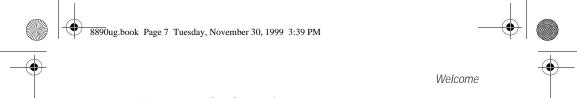












Network Services

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 Forwarding
- · Call Waiting
- · Send Own Number

However, 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 uses these Network Services. This guide will instruct you on when you need to contact your service provider for more step-by-step information.

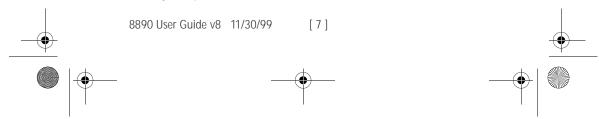
Whenever this guide talks about a Network Services feature, the text will not only tell you that this feature is a Network Services feature, but the text will also display the following icon *+ after the first mention of this feature within a chapter.

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

Contacting Nokia

Nokia's Customer Service department is available to provide you with help or more information. However, before you contact this department, please have the following information available:

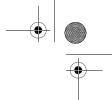
- · the phone's model number
- the phone's IMEI (serial) number
- · your zip code













To find the model and serial number, you have to remove the battery. Refer to "Removing 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 it handy. This way, if you are asked a specific question about this 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

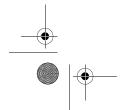
Nokia Products Ltd. 575 Westney Rd. South Ajax, Ontario L1S 4N7 Tel:(1) 905-427-6654

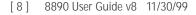


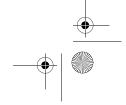
Some service providers enable you to contact them by programming the number 2 key on your phone with their customer service numbre. Then you can call them by pressing and holding the number 2 key. This feature can be helpful if you're having difficulties dialing a number, especially when traveling outside your home area.

If your service provider deems your problem to be Nokia-related, then the service provider will let you know.

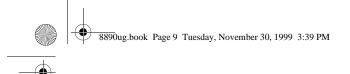
Note: This one-key feature might *not* be available on all systems. Contact your service provider for availability.

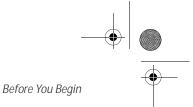














Before you begin using your phone, there are several tasks that you need to perform. This section tells you how to complete these tasks.

Preparing Your Phone for Use

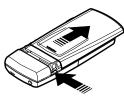
To prepare your phone, you need to perform several steps, which are described in the following subsections:

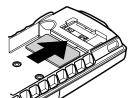
- "Installing the SIM Card" (see below).
- "Installing the Battery" on page 10
- "Charging the Battery" on page 10

Additionally, to find out how to remove a battery, refer to "Removing the battery" on page 11.

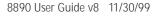
Installing the SIM Card

- Switch off the phone.
- With the back of the phone facing you, press the back cover release button and slide the back cover off.
- Align the SIM card:
 - beveled corner on the left
 - gold contact area downward.
- 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.

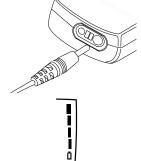
Installing the Battery

- Place the battery in the compartment with the label side facing up and the golden contact area aligned with the contact prongs.
- Slide the battery into place.
- Slide the cover back into place



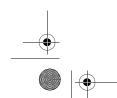
To charge the battery, perform the following steps:

- 1 Connect the lead from the charger to the bottom of the phone.
- 2 Connect the charger to a standard wall outlet. The displays shows **Charging** and the battery power indicator (or battery bar) starts scrolling.





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Before You Begin

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.

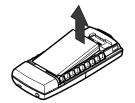
3 When the battery bar stops scrolling, **Battery full** appears and the battery charge is complete.

Note: The charging time depends on the charger and battery that you use. For example, the charging time for the BLS-2S battery with the ACP-8 charger is about 2 hours.

4 Disconnect the charger from the phone.

Removing the battery

- 1 Switch off the phone.
- Press the back cover release button and slide off the cover.
- 3 Lift out the battery.

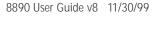














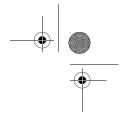
[11]













About Your Phone

Switching on your phone

To switch your phone on, press and hold $oldsymbol{0}$ 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 70 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.

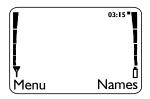
Tip: As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects call quality and might cause the phone to operate at a higher power level than otherwise needed.





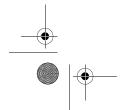
Start screen

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.



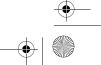
Two indicators also appear on this Start

Screen. These indicators and other icons are described in the next section.



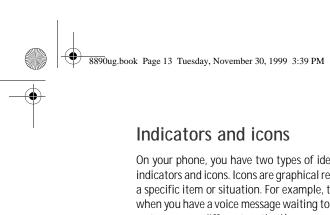


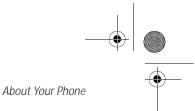
8890 User Guide v8 11/30/99











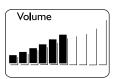
On your phone, you have two types of identifiers: indicators and icons. Icons are graphical representations of a specific item or situation. For example, this icon appears when you have a voice message waiting to be heard. (Some systems use a different method.)



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.





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. 4
- Line 2 is selected for outgoing call. 2
- You have an active call.
- You have one or more new voice messages. $\bigcirc\bigcirc$
- You have one or more new text messages.





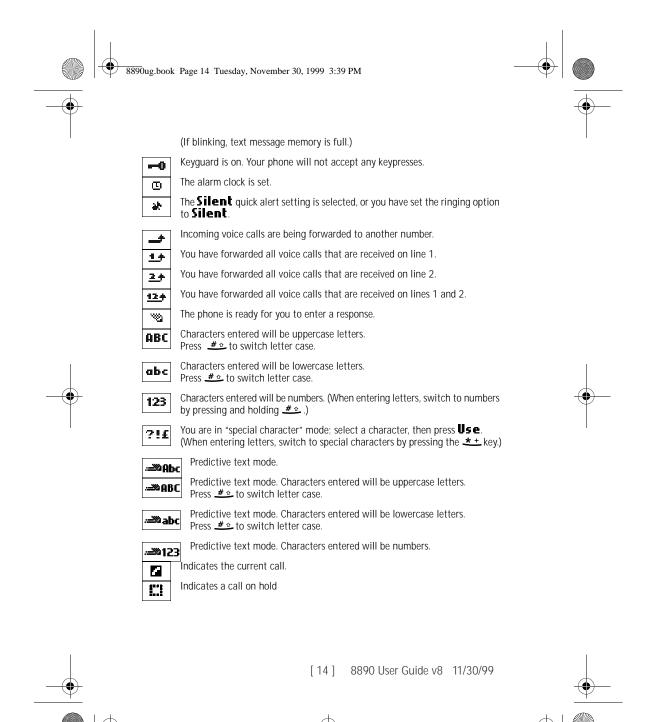


















How to make and answer calls

How to make and answer calls

Making a call

Checking 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.

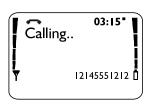
To get the strongest signal, try moving your phone slightly. If you're inside a building, move toward a window.





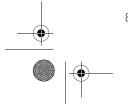
- 1 Enter the area code and phone number.
- 2 Press 🕥.

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



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.



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[15]

















Using the phone book

- From the start screen, press extstyle extswant.
- Press to make the call.
- To skip ahead quickly in the list, press the number key that matches the first letter of the name.

Using 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 28) but you cannot use the number keys.

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

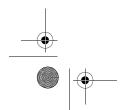
- To answer an incoming call, slide the cover down.
- To end or reject an incoming call, slide the cover up.
- To close the cover without ending a call, press Options before you close the cover. When you close the sliding cover, this screen appears.

Note: When you connect the phone to a Headset or a Car Kit, the sliding cover is deactivated.





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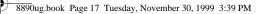


















How to make and answer calls

Making calls with the sliding cover closed

Even with the sliding cover closed, you can still:

- Make a call with the redial feature (see "Redialing the last-dialed number" on page 18)
- Make a call from the phone book (see "Phone book" on page 28)
- Make a call with the voice tag feature (see "Using voice dialing" on page 49)

Advanced calling options

- Making an international call see "Making an international call" on page 54
- Making a call using the voice tag feature see "Using voice dialing" on page 49
- Making a 1-touch call see "1-Touch Dialing" on page 52

Adjusting 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.

Ending a call

Press or close the sliding cover.















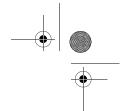














Answering a call

When someone calls you, the phone alerts you (see "Ringing options" on page 62) and **Call** flashes on the display. To answer, press any key except **Decline** or \bigcirc , or open the sliding cover.

Rejecting a call

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

Redialing the last-dialed number

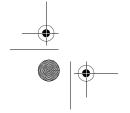
• Press 🕥 twice.

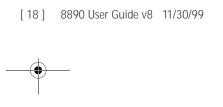
Dial any of the 10 last dialed numbers

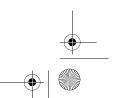
- 1 Press 🕥.
- 2 Scroll to the number you want to redial.
- 3 Press 🕥 again.

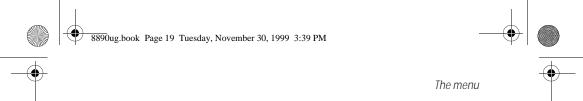












The menu

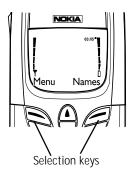
Your phone offers an extensive range of functions which are grouped in menus and submenus. Access these menus with the selection keys and scroll keys, or by entering the appropriate shortcut number.

Using the menus

Selection keys

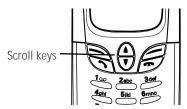
Below the display, you will find two selection keys. Their functions depend on the text above the keys.

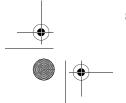
For example, in this screen, the word Menu appears above the selection key. Press the key to enter the menu function. Similarly, press the key under Names to access phone book functions.



Scroll keys

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





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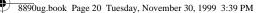














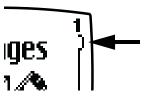




Scroll bar

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 and 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 \triangle or ∇ .



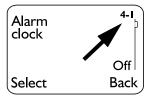
Help text

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.



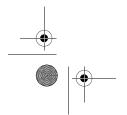
Menu shortcuts

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.
- For faster access, press **Menu**, then 0, then the menu number

For example, to get to **Alarm Clock**, press **Menu** 0 4 1.

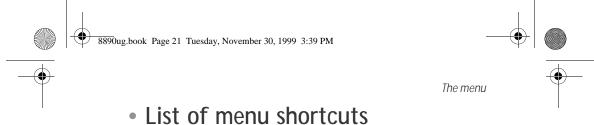


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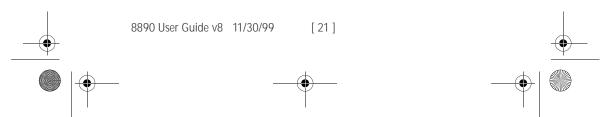
Here is an abbreviated list of menu items and their menu shortcuts.

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

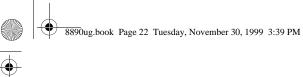
2 Call log

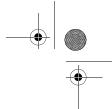
- 1 Missed calls
- 2 Received calls
- Dialed calls









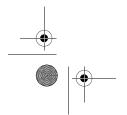




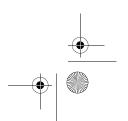
- 4 Clear call lists
- 5 Call timers
 - 1 Last call
 - 1 Current call
- 6 Call costs
- 7 Call cost settings
 - 1 Call cost limit
 - 2 Show costs in

3 Profiles

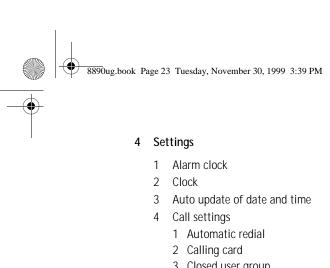
- 1 Normal
 - 1 Activate
 - 2 Customize
 - 1 Ringing options
 - 2 Ringing tone
 - 3 Ringing volume
 - 4 Vibrating alert
 - 5 Message alert tone
 - 6 Keypad tones
 - 7 Warning and game tones
- 2 Silent
- 3 Meeting
- 4 Outdoor
- 5 Pager
- 6 Car
 - 1 Lights
- 7 Headset
 - 1 Auto answer

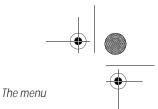




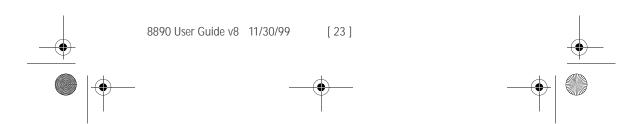


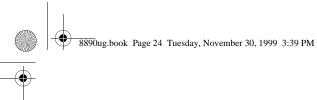


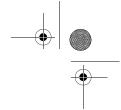


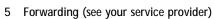


- 3 Closed user group
- 4 Send own caller ID when calling
- 5 Call waiting
- 6 Line in use (see your service provider)
- 5 Phone settings
 - 1 Language
 - 2 Cell info display
 - 3 List of own numbers
 - 4 System selection
 - 5 Touch tone length
 - 6 Notifications on SIM update
 - 7 Restore factory settings
- 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









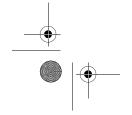
- 1 Forward all voice calls
- 2 Forward if busy
- 3 Forward if not answered
- 4 Forward when phone off or no coverage
- 5 Forward when not able to take calls
- 6 Forward all fax calls
- 7 Forward all data calls
- 8 Cancel all call forwarding

6 Games

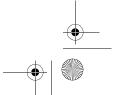
- 1 Memory
- 2 Snake
- 3 Logic
- 4 Rotation
- 7 Calculator
- 8 Calendar
- 9 Infrared
- 10 SIM services (if supported by your SIM)



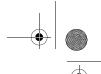














Entering letters and numbers

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 78 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 Press	5jkl 6mno 6mno 6mno	J O
Press	4ghi 4ghi	H
Press	6mno 6mno	N

























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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 27 for details.)
6	MNO6	#	Changes letter case



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

Entering spaces and punctuation

- To enter a space, press <u>0</u> once.
- To enter punctuation, press 100 repeatedly until the character you want appears.

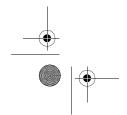
Erasing mistakes

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.

Changing letter case

To switch between upper- and lowercase letters, press #0.

The \mathbf{ABC} icon switches to \mathbf{abc} , indicating you are using lower case.



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Entering letters and numbers



123 Mode

To enter numbers, you can:

- press and hold #0 and switch to 123 Mode. Your phone displays the 123 icon. Press the appropriate number key to enter a number.
- 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 #0 again.

Using special characters in names and phone numbers

In ABC Mode:

Press and hold * + . A screen appears with the following special characters available:

Use the 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 telephone
- 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.
- This character creates a wait; digits to the right of the w are not sent until you press 🕥









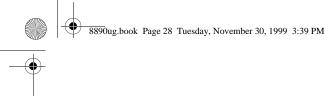


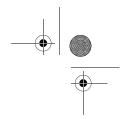












Phone book

Use the phone book to store names and phone numbers.

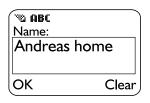
- · A phone book entry can consist of a number only, or name and number.
- · A name may appear only once in the phone book. If you try to save a name that already exists in the phone book, the phone asks if you want to replace the existing name.

Saving names and numbers

Saving a name and number

- Enter the phone number and press Save.
- Enter a name, then press **OK**.

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





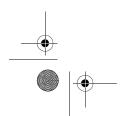
Saving a number only

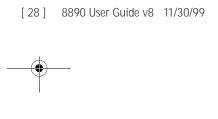
- Enter the phone number.
- Press and hold Save.

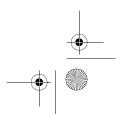
The number is saved in your phone book. You can add a name to it later.

Saving a name and number while in a call

- Press **Options**.
- Scroll to Names, then press Select.



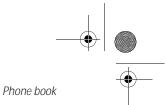








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- Scroll to **Add entry**, then press **Select**.
- 4 Enter the name, then press **OK**.
- Enter the phone number, then press **OK**.

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**.

Finding names in the phone book

From the start screen

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

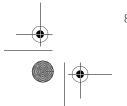
While in a call

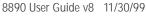
- Press **Options**.
- Scroll to **Names** and press **Select**. 2
- Search is highlighted. Press the number key that matches the first letter of the name.

OR

Press Select. 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.

[29]





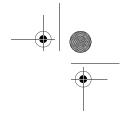














Editing names and numbers

At the start screen,

- Recall the stored name, press **Details**, then press **Options**.
- Scroll to **Edit**, then press **OK**.
- Edit the name, then press **OK**.
- Edit the number, then press **OK**.

Erasing names and numbers

Erasing stored names and numbers

At the start screen,

- Recall a stored name.
- Press Details, then Options
- Highlight **Erase**, then press **Select**, then **OK**

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

Erasing 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**.
- Scroll to Erase all and press Select.
- Scroll to the memory (Phone or SIM card) you want to erase, then press Select.
- When you see Are you sure?, press OK.
- When the **Security code:** prompt appears, enter your security code and press **OK**.





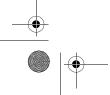




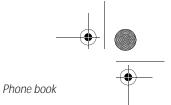














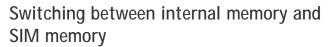
Two types of memory

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 250 names and numbers. The SIM card may hold up to 250 names and phone numbers (this varies by SIM).

To help determine which memory would be best for you, refer to the following table:

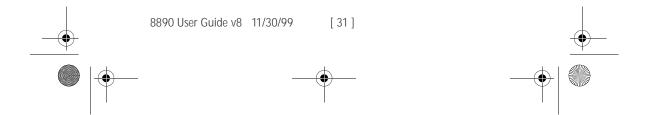
	Internal Memory	SIM Card Memory
Name capacity	up to 250 names*	up to 250 names (varies according to each SIM card)
Can easily transfer names and numbers to another phone?	No	Yes



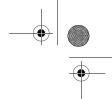


- 1 From the Start Screen, press **Names**.
- 2 Scroll to **Options**, then press **Select**.
- 3 Scroll to Memory in use, then press Select.
- 4 Scroll to SIM card or Phone, then press Select.

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.









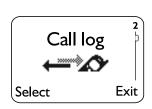
Call log⁺⁺

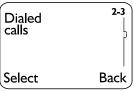
This network feature automatically keeps track of numbers you've dialed, numbers that have called you, and the amount of time you've spent in calls.

Dialed calls

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

- Press Menu 23.
- Scroll to the number you want to see information about.
- To dial the number, press : for other options, press **Options** (see "Options in call lists" on page 33).







Received calls

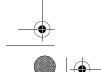
Your phone saves the phone numbers of the 10 most recent calls you've answered, if the caller's number was available.

- Press Menu 22.
- 2 Scroll to the number you want to see information about.
- To dial the number, press To other options, press To dial the number, press To other options, press To dial the number, press To dial the number To di (see "Options in call lists" on page 33).

Missed calls

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

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















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Phone book





After missing a call

- Press List. If you have missed more than one call, you can scroll through the list of numbers.
- To dial the displayed number, press . For other options, press **Options**. (See "Options in call lists" below for more information.) To exit, press Back.

At any time

- 1 Press **Menu** 2 1.
- Scroll to the number you want to see information about. 2
- To dial the number, press **D**. For other options, press **Options** (see "Options in call lists" below).

Options in call lists

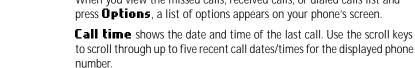
When you view the missed calls, received calls, or dialed calls list and

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

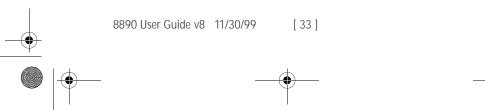
Save allows you to enter a name for the number and save both to your phone book.

Erase erases the number from the call list.

Yiew number displays the phone number if the associated name is currently displayed.





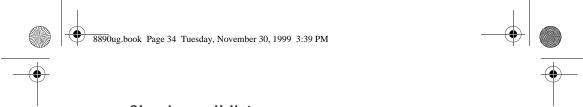












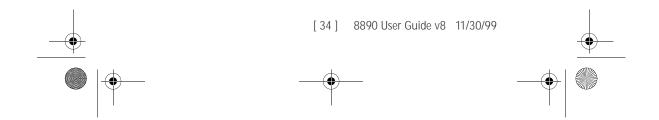
Clearing call lists

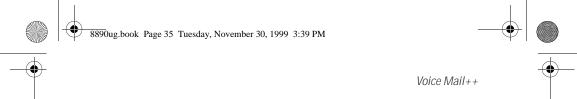
This feature clears all the missed, received, and dialed call lists.

- 1 Press Menu 24.
- 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 69) or when you use a SIM card that is not one of the five most previous cards used with the phone.







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 might display the number of messages that you have received. Finally, if you have subscribed to two different phone lines, the message would indicate to which line the message is intended.

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:

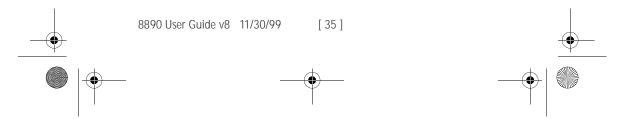
- · a voice mail subscription
- · a voice mailbox number
- · a temporary password

These items are provided by your Service Provider. Additionally, your Service Provider should tell you how to record a greeting for your voice mailbox and how to change the temporary password.

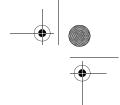
After you obtain this information from your Service Provider, you must then save the voice mailbox number given to you to your phone. Refer to "Saving the Voice Mailbox Number" on page 36.

After you have saved your voice mailbox number, refer to "Listening to Your Voice Messages" on page 36.

Note: If you have difficulty using the Voice Mail feature, contact your Service Provider.









Saving the Voice Mailbox Number

- 1 Press **Menu** 1 9 2.
- 2 Enter your voice mailbox number, then press **OK**.
 Note: This number can be up to 32 digits long.

Working with Two Phone Lines

If your particular SIM card supports it, this phone can have two phone lines. Your Service Provider can let you know if your SIM card allows the use of this feature and give you access to the use of 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.

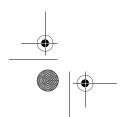
If you use two phone lines, you will be given a voice mailbox number for each line. You need to save each phone line's voice mailbox number separately.

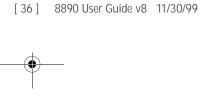
To do this, first select the outgoing line and save its voice mailbox number. Then, select the outgoing line and save its number.

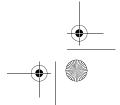


You can call your voice mailbox using any of the following methods:

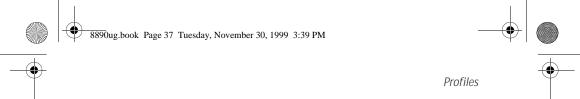
- if there's a notification message on your screen and Listen appears at the bottom, you can press Listen to call your voice mailbox
- if you've saved your voice mailbox number in your phone, press and holding 100 to call your voice mailbox.
- call your voice mailbox number as you would any other telephone number, then follow the directions provided.











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.

Selecting 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 power until the desired profile is highlighted, then press **DK**.

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 61 for more information.











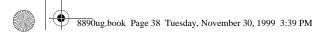


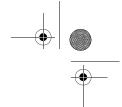














10. Advanced calling features

Active call options

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.

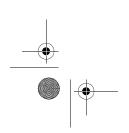
Activating/canceling call waiting

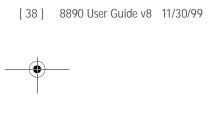
- 1 Press **Menu** 4 4 5.
- 2 Scroll to Activate or Cancel.
- 3 Press **OK**.

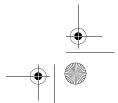
Confirming call waiting status

- 1 Press **Menu** 4 4 6.
- 2 Press Select.
- 3 Scroll to **Status** and press **OK**.
 The display shows **Active: Yoice calls**. Scroll to check the status of other features such as fax or asynchronous data services.











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Advanced calling features

Answering a waiting call

- Your phone signals when you have a call waiting.
- 2 Press to put the current call on hold and answer the waiting call.

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



Rejecting a waiting call

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

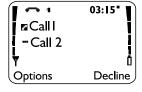
• Press Decline,

OR

- Press Options and scroll to Reject.
- Press **Select**.



Press or Swap.



The \blacksquare icon represents the active call and the \blacksquare icon represents the call

Ending the active call

Press .

on hold.

2 The held call becomes active.

OR

- Press Options and scroll to End active call. 1
- Press Select.











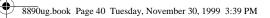
















Third call waiting

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

Dropping an active call to answer the waiting call

• Press 🕥.

The held call is unaffected.

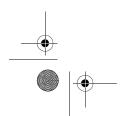
Ending the active call and held call to answer the waiting call

- Press **Options**.
- Scroll to **End all calls**.
- Press 🕥.

Using the in-call menu

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

Choice	What it does
Hold or Unhold	Hold or release a call
New call	Make a call when you have a call in progress
Touch tones	Send touch tones
End all calls	End all calls
Names	Use your phone book
Menu	Use the menu
Mute	Mute a call



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Advanced calling features

Putting a call on hold

- To put a call on hold, press **Hold**.
- To return to the call, press Unhold.

Making 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.
- Enter the second phone number, or recall it from the phone book.
- Press Call.

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

Switching between two calls in progress

Press or Swap.

The 🖪 icon represents the active call and the 📮 icon represents the call

Ending the active call

• Press 🗩.

The held call becomes the active call.

Sending 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, overthe-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.























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Setting touch-tone length

- Press Menu 455.
- Scroll to **Short** (1/10 second) or **Long** (1/2 second)
- Press **OK**.

Saving touch tone strings

Use touch tone strings for sending and receiving information with your phone. For example, you can save your office voice mailbox number along with your password for easy access to your messages.

Store touch tone strings the same way you save phone numbers (see "Saving names and numbers" on page 28).

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

Sending a touch tone string

- Press Options.
- Scroll to **Touch tones** and press **OK**.
- Enter a touch tone string or recall a touch tone string from the phone book and press **OK**.

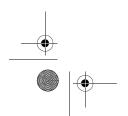
Ending all calls

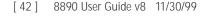
- Press **Options**.
- Scroll to **End all calls**, then press **Select**.

Accessing the phone book

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

- Press **Options**.
- Scroll to **Names** and press **Select**. Now all your phone book functions are available. See "Phone book" on page 28 for details.





















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Advanced calling features

Accessing menus

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

Muting/unmuting 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**.
- 3 To unmute the microphone, press **Unmute**.

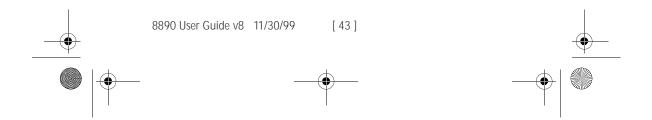
Muting and unmuting also affects the microphones of any accessories connected to the phone.

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 conference in, 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 2-5.
- 7 To end the conference call, press .







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Having 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 **DK**. 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.
- 3 Scroll to the person you want to drop, then press **DK**. The other participants can continue talking with each other.
- 4 Press Options
- 5 Scroll to **End active call**, then press **Select**.

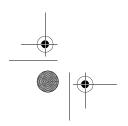
Transferring a call++

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

Note: Your network and SIM card must support this feature

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





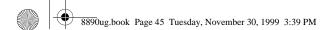














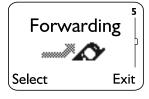




Call forwarding++

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



Advanced calling features

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.

Activating call forwarding

- Press **Menu** 5. Scroll to one of the following options:
 - 51 Forward all voice calls (Forwards all voice calls without ringing)
 - 52 Forward if busy
 - 53 Forward if not answered
 - 5 4 Forward when phone off or no coverage
 - 55 Forward when not able to take calls

Combines the previous three types, and lets you choose a delay time between 5 and 30 seconds.

- 56 Forward all fax calls
- 57 Forward all data calls

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- Press Select.
- Activate is highlighted; press OK.
- Select Voice Mail OR
 - Select Other number.
- 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.

Canceling call forwarding

- Press **Menu** 5 1.
- Scroll to Cancel and press OK

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.

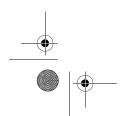


Call forwarding status

- Press **Menu** 5.
- 2 Scroll to the call forwarding option you want to check.
- 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.



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Advanced calling features

Automatic redial

This feature redials the number you're trying to call up to 10 times.

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

Activating automatic redial

- Press Menu 441.
- 2 Scroll to **On**, then press **OK**.
- Press and hold **Back** to return to the start screen.

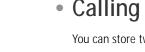
If the number you dial is busy, your phone immediately redials the number. If it is still busy, your phone will redial the number up to nine more times.

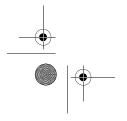
Calling card

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

Saving calling card information

- 1 Press **Menu** 4 4 2.
- Scroll to the calling card information you want to change, then press Options.
- Scroll to **Edit**, then press **OK**.
- 4 Enter your security code, then press **DK**.
- At **Dialing sequence**, press **Select**. Scroll to the dialing sequence your card uses (see chart below) then press **Select**.







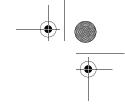




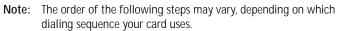








Dialing sequence	Use for cards that require you to:	Cards using this sequence
Access no. + Phone no. + card no.	Dial 1-800 access number, then phone number, then card number (+ PIN if required)	MCI, AT&T True Choice, Sprint Canada, Unitel
Access no. + card no. + phone no.	Dial 1-800 access number, then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



- Enter the access number (usually the 1-800 number listed on the back of the calling card), then press **OK**.
- 2 Enter the card number and/or PIN, then press **OK**.
- 3 Your phone displays Save changes? Press OK.
- Scroll to Card name: and press Select. 4
- Enter the card name, then press \mathbf{OK} .

Choosing a calling card

- Press **Menu** 4 4 2. 1
- Scroll to the card you want to use, then press **Options**.
- **Select** is highlighted; press **OK**.
- Enter your security code, then press **OK**.

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Advanced calling features

Making a calling card call

- 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.
- Your phone displays Wait for tone, then press OK. Wait for the tone, then press \mathbf{OK} .
- Your phone displays Wait for tone, press OK again. Wait for the tone, then press \mathbf{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.

Using voice dialing

Your phone's voice dialing feature let's you dial a number using your voice. Before you can begin 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.

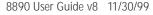
Adding a voice tag to a phone book entry

To create entires in the phone book, see "Saving names and numbers" on page 28. By this time you should be familiar wirh the phone book. If not see "Phone book" on page 28.

- At the Start screen, scroll to the name you want to give a voice tag. 1
- Press Details, then Options, and scroll to Add voice tag. 2
- Press Select. The phone displays Press Start, then speak 3 after tone.
- Press **Start** then speak clearly into the microphone.

Note: DO NOT press Quit when you're done.













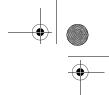














5 The phone automatically stops recording then saves and replays the voice tag.

If recording is *not* successful, your phone asks if you want to try again. Press **Yes** to try again or **Quit** to exit.

Warning: Do not rely only on 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 their first name.
- · Voice tags must be no longer than 2 seconds.
- Voice tags are sensitive to background noise. Record and use 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.

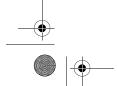
Making a call using voice recognition

Press and hold Names. You hear several beeps, and Please speak now appears.

Note: If you have the optional headset attached, press and hold the headset 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. Press Yes to try again or **Exit** to cancel and return to the start screen.

Playing back a voice tag

- Press Names and scroll to Yoice tags.
- Press **Select**, then scroll to the name with the voice tag you want to
- Press Options, select Playback, and press OK.

Changing a voice tag

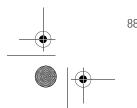
- Press Names and scroll to Yoice tags.
- Press **Select**, then scroll to the name with the voice tag you want to change.
- Press **Options**, scroll to **Change** and press **OK**.
- The phone displays Press Start, then speak after tone.
- Press **Start**.

Note: Refer to "Notes about voice tags" on page 50.

The phone repeats your voice tag, and Yoice tag saved appears.

Erasing a voice tag

- Press Names and scroll to Yoice tags.
- Press **Select**, then scroll to the name with the voice tag you want to
- Press Options, scroll to Erase and press OK. Erase voice tag? appears.
- Press **DK** to erase the voice tag.



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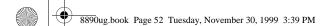


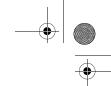














1-Touch Dialing

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 - 9 as one 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 28 for more information.

Key 1 can be set up to access your voice mail. Check with your service provider for details. Also, Key 9 can be setup to dial emergency numbers such as 911.

Assigning a number to a 1-Touch Dial key

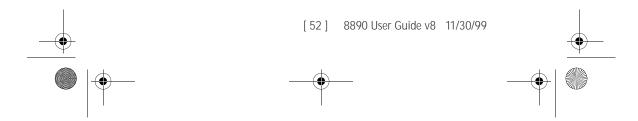
- 1 Press Names and scroll to 1-touch dialing
- 2 Press Select.
- 3 Scroll to the first number that shows the message (empty) and press Assign. A list of names appears.
- 4 Scroll to the phone book entry you want to assign to this key, press **OK**, and **Options** appears. Now you can edit the number if needed.

Calling a 1-touch dial number

Press and hold the appropriate key, or press the key then press \mathfrak{D} . 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 $\frac{1}{2}$ and your phone dials voice mail. If you assign a 1-touch number to key 1, press $\frac{1}{2}$ then press $\frac{1}{2}$. The phone dials the 1-touch number.







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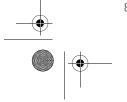
- 1 Press Names.
- 2 Scroll to **1-touch dialing** and press **Select**.
- 3 Scroll to the key that you want to change and press **Options**.
- 4 Scroll to **Change** and press **Select**. A list of names appears.
- 5 Scroll to the new name you want to assign to this key and press **OK**.

Erasing 1-Touch Dialing Numbers

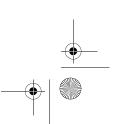
- 1 Press Names
- 2 Scroll to **1-touch dialing** and press **Select**.
- 3 Scroll to the key that you want to erase and press **Options**.
- 4 Scroll to **Erase** and press **Select**.
- 5 Press **OK** to confirm.

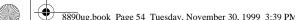


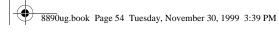


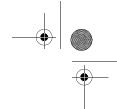














Making an international call

- 1 Enter the + character (by pressing the *+ key twice), country code, area code, and phone number.
- 2 Press 🕥.

Caller

groups



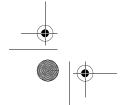
Using the phone book

Phone Book Menus

Begin at the Start Screen and press **Names**. From here, scroll through the menus to select a particular menu or option.

searcn	Search for a specific name.
Add entry	Enter a new name and number.
Erase	Erase names/numbers. You can choose to erase individual names/numbers, or you can erase all information at one time.
Сору	Copy names/numbers between your phone and SIM card.
Options	Choose the memory source (SIM card or internal), phone book view, and show the memory status.
1-touch dialing	Assign up to nine 1-touch dial locations. Refer to "1-Touch Dialing" on page 52 for more information.
Voice tags	Program voice activated dialing

group.



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Rename or change the ringing tone for a caller











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Advanced calling features

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.

- From the Start Screen, scroll to the name or number you want.
- 2 Press **Details**, then press **Options**.
- Scroll to Caller groups and press Select. 3
- Scroll to the group you want to give this name to and press **Select**.

Removing names from a caller group

- Follow steps 1-3 above.
- Scroll to **No group** and press **Select**.

Assigning a ringing tone to a caller group

- 1 From the start screen, press Names.
- 2 Scroll to Caller groups. Press Select.
- Scroll to the group you want. Press Select. 3
- Scroll to **Group ringing tone** and press **Select**.
- 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 62.

























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Renaming a caller group

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

- 1 Follow steps 1-3 above.
- 2 Scroll to **Rename group**. Press **Select**.
- 3 Enter the group name, then press **OK**.

Group graphics

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

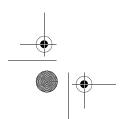
4 Scroll to **On** and press **Select**.

To turn the graphic off, follow the steps above, but scroll to ${\bf Off}$ in the last step.

Sending the graphic to someone else:

- 1 Follow steps 1-3 above.
- 2 Scroll to **Send graphic**. Enter the phone number or scroll to find it in your phone book, then press **OK**.

For more details on the **Send via IR** command, see page 100.



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Advanced calling features

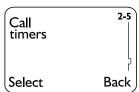
Viewing a received graphic

- 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



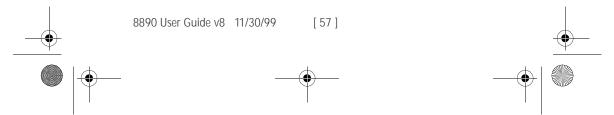
If you have subscribed to a second phone line (see "Working with Two Phone Lines" on page 36), call timers are separate for each of your phone lines. When you view call timers, the call timers that are shown are for the currently selected outgoing line. However, if you view call timers while you are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

Viewing the call duraton

- 1 Press **Menu** 25.
- Scroll to Last call, Received calls, Dialed calls or All calls.

Resetting call timers to 0

- 1 Press Menu 25.
- 2 Scroll to Clear timers, then press OK.
- 3 Enter your security code, then press **DK** again.







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Showing call timer during calls

- 1 Press **Menu** 2 5.
- 2 Scroll to Last call, then press Details.
- 3 Current call is displayed; 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 upon network features, rounding-off for billing, and so forth.

Using 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.

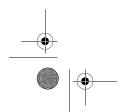
Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding-off for billing, and so

Setting a call cost limit

- 1 Press **Menu** 2 7 1.
- 2 Enter your PIN2 code (see "PIN and PUK codes" on page 70), then press
- 3 Scroll to Select, 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.





















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Advanced calling features

Removing a call cost limit

- 1 Follow steps 1 and 2 above.
- 2 Scroll to Off, then press OK.

Showing 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" below.

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

Viewing call costs

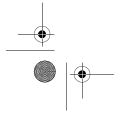
- Press **Menu** 2 6.
- Scroll to Last call cost (cost of last call, or current call if applicable) or All calls cost (cost of all calls since counters were last reset).

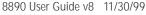
Clearing call cost counters

- Press Menu 26. 1
- Scroll to **Clear counters**, then press **OK**.
- Enter your PIN2 code, then press **OK**.











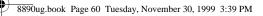


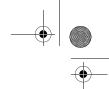














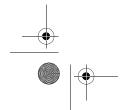
• Showing costs in**

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 operator and SIM card.

- 1 Press **Menu** 2 7 2.
- 2 Scroll to **Currency** or **Units**, then press **Select**.
- 3 If you selected **Currency**:
 - Enter the unit price, then press **OK**.
 - Enter the currency name, then press **OK**.
- 4 If you chose **Units**, call costs and call cost limits are measured in charging units as agreed to by your service provider.





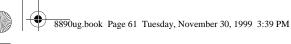














Customizing your phone





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 nto 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.

Selecting a profile

- Press Menu 3. 1
- Scroll to the profile you want to use. For Example, **Normal**
- Press **OK**.

Customizing the profile

- Press **Menu** 3.
- Scroll to the profile you want to customize. For example, Normal.
- Press **Options**.





[61]

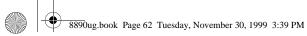














Ringing option

Vibrating alert

Keypad tones

Message alert tone

Warning and game tones Automatic answer

Profile =

Ringing tone Ringing volume





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

The customize options appear.

Ringing options

Choose how a profile notifies you of an incoming call.

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 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 you want to set the ringing tones for, and press Options.
- Highlight **Customize** and press **OK**.
- Scroll to **Ringing tone**, then press **Select**.



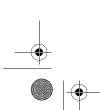
























Customizing your phone

3-1-2-3-4

Back

- Scroll to the tone you want, then pause to hear a sample of the tone.
- Press **DK** to select the tone or continue scrolling to select a different tone.

Level 4

Level 5

Level I

OK

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**.
- Scroll to **Ringing volume**, then press **Select**.
- Scroll to the volume level you wish to use, then pause to hear a sample of the volume.
- Press \mathbf{OK} to select the volume or continue scrolling to select a different volume.

Note: If you select Level 5, you see a note stating YERY 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.
- Scroll to the profile you want to set the vibrating alert for, and press Options.
- Highlight **Customize** and press **OK**. Scroll to Yibrating alert, then press Select.















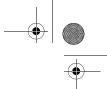














Scroll to **On** or **Off** and press **OK**. If you choose **On**, your phone vibrates even if you have set **Ringing options** (see page 62) to Silent.

Message alert tone

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

- Press Menu 3.
- Scroll to the profile whose message alert tone you want to set, then press **Options**.
- Scroll to **Customize**, then press **OK**.
- Scroll to Message alert tone, then press Select.
- Scroll through the tones until you hear one you like, then press **OK**.

Keypad tones

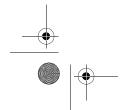
This option sets the volume of the tone you hear when you press the phone's keys.

- Press Menu 3.
- Scroll to the profile whose keypad tones you want to set, then press Options.
- Scroll to **Customize**, then press **OK**. 3
- 4 Scroll to **Keypad tones**, then press **Select**.
- 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.

- Press Menu 3.
- 2 Scroll to the profile you want to set the warning tones for, then press Options.

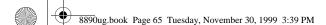
















Customizing your phone

- Scroll to **Customize** and press **OK**. Scroll to **Warning tones**, then press Select.
- Scroll to **On** or **Off**, then press **OK**.

Rename a profile

- Press Menu 3. 1
- Scroll to the profile you want to rename. (Remember, you cannot rename the Normal, Car, or Headset profiles) and press **Options**.
- 3 Scroll to **Rename** and press **OK**.
- Enter the new profile name, then press **DK**.

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 prpofiles 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, the sliding cover is deactivated. Use , , or to answer, end, or reject 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.

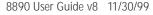
Automatic answer

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.

























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- 1 Press Menu 3.
- 2 Scroll to Car or **Headset**, then press **Options**.
- 3 Choose **Customize** and press **OK**. Scroll to **Automatic Answer**, then press **Select**.
- 4 Scroll to **On** and pres **Select**.

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.

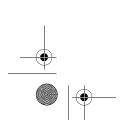
Note: Restoring factory settings does not erase your phone book. However, it does erase all customized settings you may have entered.

Display language

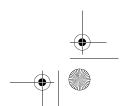
You can choose your phone's display language.

- 1 Press **Menu** 4 5 1.
- 2 Scroll to the language you want, then press **OK**.















Customizing your phone

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 94).

Setting the clock

- Press Menu 4 2 2.
- Enter the current time, using two digits for both hours and minutes.

Enter hours and minutes in 24-hour format.

- Press **OK**.
- 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**.

Selecting the time format

- Press Menu 4 2 3.
- Scroll to **Time format**, then press **Select**.
- Scroll to 24-hour or am/pm.
- Press **OK**

Displaying the clock

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

- Press Menu 4 2 1.
- Scroll to **Hide clock** or **Display clock** (only one choice appears, depending on the current setting).
- Press Select.











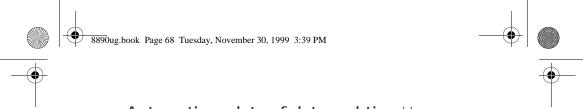












Automatic update of date and time++

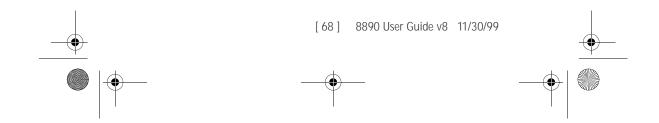
If this feature is supported by your wireless service provider, it automatically updates the clock in your phone in accordance with the current time zone. Press **Menu** 4 3 and choose:

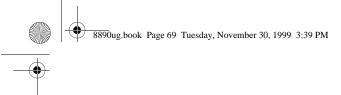
On updates the date and time automatically.

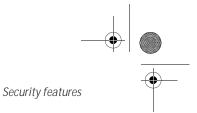
Confirm first requires you to confirm that you want the update.

Off prevents the date and time from being automatically updated.





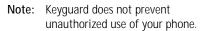


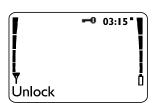


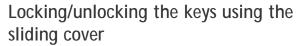


Locking the keypad (Keyguard)

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





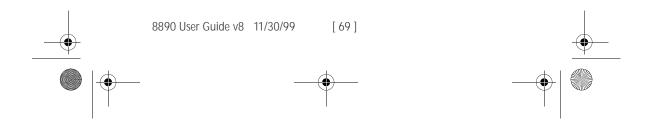


- · Close the sliding cover, then press Lock keys.
- To unlock the keys, open the sliding cover.
- To unlock the keys, but leave the sliding cover closed, press Unlock and then press OK.

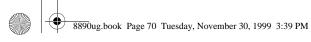
Locking/unlocking the keys with the sliding cover open

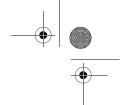
- To lock the keys, press **Menu**, then *+.
- To unlock the keys, press **Unlock** then *+.

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









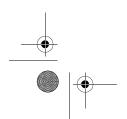


PIN and PUK codes

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

Code	Purpose	For more information
Security code	Required by several phone features. If phone security is on, the phone requests the security code the first time you use it after installing a new SIM card.	See entries for call timers, calling card, phone book, and phone security.
PIN code	If SIM card security is on, the phone requests the PIN code every time the phone is turned on.	See "PIN and PUK codes" on page 70.
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 74.















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Security features

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 "Using call cost limits" on page 58).

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

Changing your PIN or PIN2 codes

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

- 1 Press Menu 4 6 5, then press Select.
- 2 Enter the current PIN code and press **DK**.
- Enter the new PIN code and press **OK**
- Enter the new PIN code again to verify, and press **DK**

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 72."

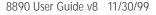
SIM card security

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.
- Enter the PIN code supplied by your service provider, and press **OK**.
- Press (up or down) to highlight **On** and press **OK**. 1

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

























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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 "Working with 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.

Unblocking a PIN code

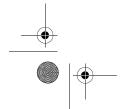
- Press Menu 4 6 5, then press Select. Change PIN code appears. To unblock the PIN2 code, press (down) to select Change PIN2 code
- 2 Press Select.

PIN code blocked appears.

- 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.
- 4 Enter the new PIN code, then press **DK**.
- 5 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 it, 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.



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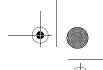








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Security features

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 the next five minutes.

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

- 1 Press **Menu** 4 6 5, then press select.
- 2 Scroll to **Change security code** and press **Select**.
- Enter the current security code, then press **DK**. 3
- 4 Enter the new security code, then press **DK**.
- 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).









[73]

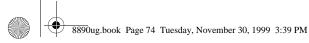


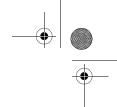














Turning fixed dialing on or off

- Press Menu 4 6 4.
- Scroll to **On** or **Off**, then press **OK**.
- Enter your PIN2 code, then press **OK**.

Adding numbers to the fixed dialing list

- Press Menu 4 6 4.
- Scroll to **Numbers**, then press **OK**.
- Scroll to Add, then press Select.
- Enter your PIN2 code and press **OK**.
- Enter a name to go with the restricted phone number, then press **OK**.
- Enter the phone number you want to restrict, then press **OK**. Repeat steps 3-6 for each number you want to add to the list.





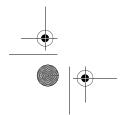
This is a network service that lets you restrict the calls your phone can make and receive. Check with your service provider for details.

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

Turning on call restrictions

- Press **Menu** 4 6 3.
- 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.















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Security features

International calls: Calls cannot be made to foreign countries.

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

Incoming calls: Calls cannot be received.

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

Cancel all call restrictions: Turns off all call restrictions. Calls can be made and received in a normal way.

Note: If you selected Cancel all call restrictions, the following

steps are not available.

Also, you can cancel call restrictions on each option, allowing restrictions on other opitons 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.

Press **DK**.

For more information about your restriction password, see "Restricting calls++" on page 74.

Setting 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.













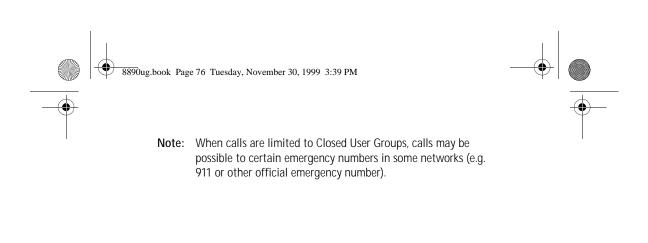




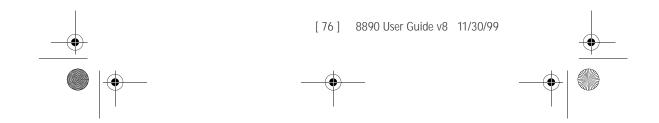














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How to select a system

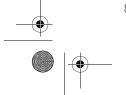
13. How to select a system

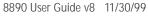
You can select how your phone chooses a wireless network, as there may be more than one available. The selection you make stays active until you change it or change the SIM card.

- 1 Press **Menu** 4 5 4.
- 2 Scroll to Automatic or Manual, Press Select.
- **Automatic**: the phone automatically selects one of the available systems.
- Manual: the phone searches for available systems 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.









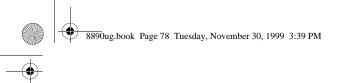


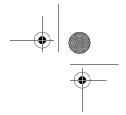
[77]













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

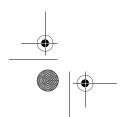
Setting up text messaging

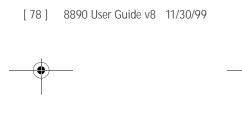
Before you can send and receive text messages, you must:

- have a text message subscription through your service provider
- · know your text message center number
- · save your text message center number in your phone

Saving your message center number

- 1 Press **Menu**.
- 2 The **Messages** menu appears. Press **Select**.
- 3 Scroll to **Message settings**, then press **Select**.
- 4 Choose which set of message settings you want to use (the first one is the default), then press Select.
- 5 Message center number appears. Press Select.
- 6 Enter your message center number, then press **DK**.

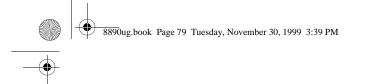


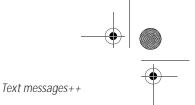














Using standard text input

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:

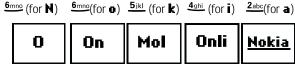
Press	5 jkl	J
Press	6mno 6mno 6mno	0
Press	4ghi 4ghi	H
Press	6mno 6mno	N

See "Standard text input" on page 25 for more information.

Using predictive text input

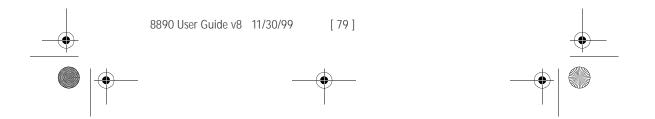
Predictive text input is the default mode that allows you to write text using a built-in dictionary. You can also add new words to the dictionary. With predictive text input, you only need to press each number key once for each letter.

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



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.







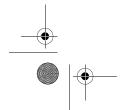






Predictive text input tools

2 abc - 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.	
<u>0 </u>	Press once to accept a word and add a space.	
# &	Press and hold to enter a number. 23 indicates 123 mode.	
# 0	Press to change the character case. ABC indicates upper case. Indicates lower case.	
# 0	Press to select predictive mode or standard text mode. ABC and abc indicate standard text mode. ABC and abc indicate predictive text mode.	
Clear	Press once to delete the character to the left of the cursor.	
100	Press once to add a punctuation mark. To change the underlined symbol, press ** repeatedly until the desired symbol displays.	
160	Maximum number of characters available. Appears in the top right corner of the display and counts down for each character added.	











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Text messages++

Selecting a language and turning on predictive text input

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

Turning off predictive text input

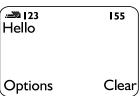
- To switch from predictive text input to traditional text input, repeat steps 1 - 3 above, then select Off
- While writing the message, press # to switch between predictive text input and standard text input.

Writing with predictive text input

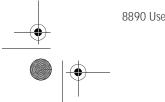
Press each key once for each letter.
For example, to write "hello" press
4ghi 3def 5jkl 5jkl 6mno

Do not pay attention to the word on the display until you have completed writing the word.

• Do not pay attention to the word on the display until you have completed writing the word.



- Refer to the character counter in the top right of the screen. It keeps count of 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 100 to insert a punctuation mark. If it is not correct, press
 * repeatedly to find the desired punctuation mark.



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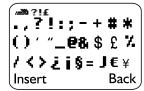








- To insert a symbol, press and hold *+. The symbol screen appears. Select the desired symbol and press **Insert**.
- 2 When you have finished writing, check that the underlined word is the word you intended to write.



If the word is correct:

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

If the word is not correct:

• Press ** repeatedly until the desired word appears, then press o _ to confirm it.

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 ABC mode so the that the first letter in the next word will be

If the ? character appears after the word:

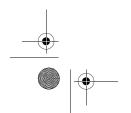
The word you intended to write is not in the dictionary.

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

Adding 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.

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









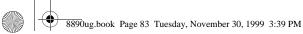


















Text messages++

- 2 Press **Spell** and enter the word(s) using standard text input (See "Standard text input" on page 25).
- 3 Press **OK** to save the word(s).

Insert numbers

- 1 To add a number to the message, press and hold #0 until appears
- 2 Key in the desired numbers, then and press and hold #0 to return to **ABC** mode.

Insert symbols

- Press and hold until the symbol screen appears.
 OR
- Press **Options** and scroll to **Insert symbol**.
- 2 Select the desired symbol and press **Insert**.

Writing compound words

- 1 Write the first part of the word and press $\mathbf{\nabla}$ to accept it.
- 2 Write the last part of the compound word and press <u>0</u> to enter the word in memory.

Saving messages in the Outbox

When writing 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.

Sending the text message

- 1 Press Menu 1 3. Write messages appears briefly, then the message screen appears.
- 2 Enter a message of up to 160 characters. (The number of available























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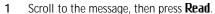
characters appears in the top right corner of the screen.)

- 3 Once you are 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
- 5 When the message is successfully sent, **Message sent** appears.

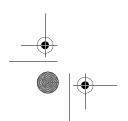
Note: If you need to exit while writing the message, press anytime. Later, press **Menu** 1 3 to return and finish writing the message. However, if you turn off the phone without saving the message, the message will be lost.

Resending a message from the Outbox

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



- 2 Press Options.
- 3 Scroll to Forward and press OK.
- 4 Press Options. Send appears already highlighted.
- 5 Press **OK** to send the message.

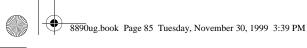


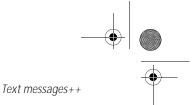














Reading text messages

Reading new text messages now

When you receive a text message, the phone displays **Message** received the indicator, and makes a sound (depending on the "Message alert tone"; see page 64).

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

Reading new text messages later

Press **Menu** 1 1 1.

A list of message headers is displayed. The **\Delta** icon in front of the header indicates that a message has been read. The 💆 icon indicates that a message has not yet been read.

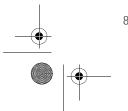
- Scroll to the message you want, then press **Read**.
- If the message is long, use the scroll keys to scroll through the message.

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

Erasing a message

- While reading the message, press **Options**.
- Scroll to **Erase**, then press **OK**.
- Your phone asks you to confirm that you want to erase the message. Press **DK**.

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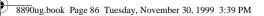


















Replying to a message

- Press **Options**.
- Scroll to Reply, then press Select.
- Enter your message, then press **Options**.
- Scroll to **Send**, then press **OK**.
- The phone displays the return number. Edit the number if needed, then press **OK**.

Forwarding a message

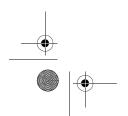
- Press **Options**.
- Scroll to **Forward**, then press **OK** and the message text appears.
- Edit the message if necessary, then press **Options**. **Send** appears already highlighted.
- Press **Send**. The **Number** box appears.
- Enter the recipient's phone number, then press **OK**.

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

Retrieving a number

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

- Press **Options**.
- Scroll to **Get number**, then press **OK**.
- If more than one number is shown, scroll to the one you want, then press **OK**.

















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Text messages++

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, etc.

Changing settings for some messages

- Press **Menu** 15.
- 2 Scroll to the set you want to change the settings for, then press Select.
- 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).

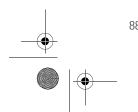
Messages sent as: Scroll to Text, Fax, Page or E-mail, then press \mathbf{OK} . (In order to receive a converted message, the recipient needs to have the appropriate terminal device.)

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 **DK**.

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

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Press **Select**.



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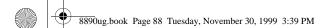


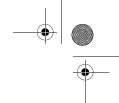














Changing common settings for all messages

- 1 Press Menu 15.
- 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 means that the network tries to route the reply to this text message through your own message center.

Message storage

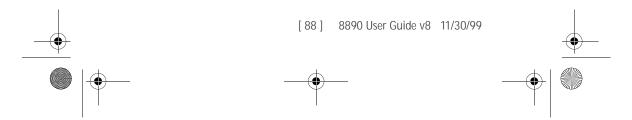
The Inbox and Outbox share a given amount of memory in your SIM card. When this memory is full and there is no more room to store messages, the message indicator blinks. If you are sent a text message when the memory is full, the phone displays the message **No space: message waiting**. You should delete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

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

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.











Sending picture messages

- Press Menu, then Select.
- 2 Scroll to Picture Messages and press Select.
- 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.
- Press **Options** and scroll to **Forward**.
- Recall or enter the phone number you want to send the picture message to.

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

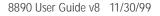
Press **OK**.

Sending picture messages with text

- Press Menu, then Select. 1
- 2 Scroll to Picture Messages and press Select.
- 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.
- Press Options. Scroll to Edit text and press Select.
- Write a message (up to 120 characters) to go along with the picture, then press **Options**.

Note: You can use Predictive Text mode or Traditional mode to write the message. See "Using predictive text input" on page 78 for more information.

- Scroll to **Send picture** and press **OK**.
- Enter the phone number you want to send the picture message to and press OK. Sending picture message appears, followed by Picture message sent.











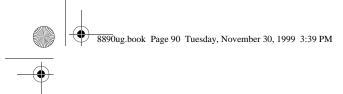


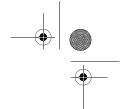












Note: The phone number you choose must be able to receive picture messages.

Receiving picture messages

- When your phone displays Picture message received, press View and the message appears. If the picture has a text message with it, scroll up or down to see the entire message.
- 2 Press Save to keep the picture message, or press Back and Exit to delete it.

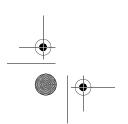
Other picture message options

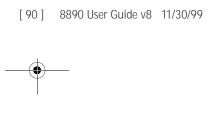
Erase deletes the picture you select.

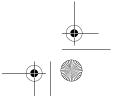
Use number automatically lets you save any phone number included in the text of the picture message.

Details shows the phone number of the person who sent you that picture message.













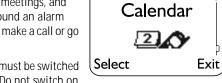


Your Personal Digital Assistant

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.

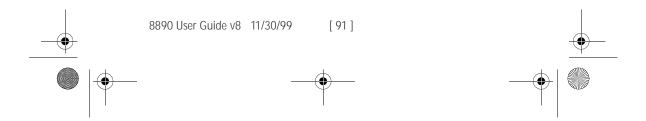
Starting the calendar

Press **Menu** 8.

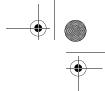
Entering the date

If you need to enter the date, follow these steps.

- enter the date, follow
- 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, 1999 as 12311999).
 Date is set appears.









Entering the time

If needed, enter the time in **hhmm** format or in 24 hour format.

Calendar options

Press Menu 8 to see the current day's calendar screen. There are seven options available with the Calendar feature.

Calendar screen with note icon Option 1: 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.

Option 2: Make note

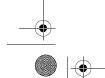
With this option, you can choose from four note types: **Reminder**, Call, Meeting, or Birthday. Your phone asks you for more information depending on which one you choose.

- 1 Press Options, scroll to Make note, then press Select.
- 2 Scroll to the desired note type (for example, **Reminder**) and press OK.
- Key in a subject for the reminder and press **DK**.
- Enter the date for the reminder in **mmddyyyy** format and press OK.
- When Set an alarm for the note? appears, choose Yes or 5

If you choose Yes:

- enter the date for the alarm, then press **DK**.
- Enter the time for the alarm, then press **DK**.

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Your Personal Digital Assistant

• Choose **am** or **pm**, and press **OK Calendar note saved** appears briefly, then the current day's calendar screen appears.

If you choose No:

• then **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:

甾 Birthday reminder 均少 Meeting reminder **2** Call reminder 27 Other reminder

Option 3: Erase notes

- Scroll to **Erase notes** and press **Select**.
- Scroll to Of chosen day, One by one, or All at once, then 2 press **OK**.

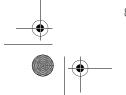
Of chosen day displays each note for the current day so you can delete them individually. Press **Erase** to delete the note, or press the scroll keys to leave it and view other notes.

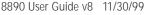
One by one displays notes in chronological order, with birthdays first, so you can delete them individually. Press **Erase** to delete the note, or press the scroll keys to leave it and view other notes.

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

Option 4: View all notes

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













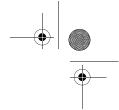














Option 5: Go to date

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

Option 6: Set the date

This option allows you to set the current date in your phone. Enter the date in mmddyyyy format, then press OK.

Sending/receiving 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 "Sending information via $\ensuremath{\mathsf{IR}}$ " on page 100.

Viewing received calendar notes

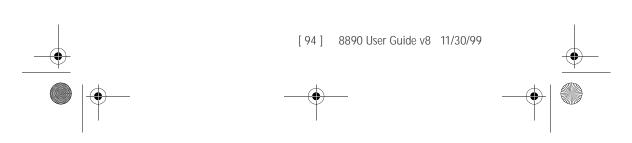
Caution: If you press **Exit** the calendar note will be deleted!

- 1 When your phone displays Calendar note received, press Options
- 2 Show is selected. Press OK
- 3 Scroll through the note.

Saving received calendar notes

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









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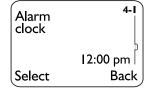
Your Personal Digital Assistant

Discarding 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!



Setting the alarm clock

- 1 Press Menu 41.
- 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.

Handling the alarm

Phone on

Press **Stop** to shut off the alarm

OR

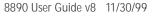
Press **Snooze**. The alarm stops and sounds again in 5 minutes.

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

Phone off

The phone switches itself on at alarm time, 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.











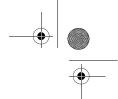














WARNING! Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

Turning off the alarm clock

- 1 Press **Menu** 4 1.
- 2 Scroll to **Off** and press **OK**.

Business cards

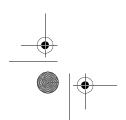
Your phone can send or receive electronic business cards consisting of a name and phone number. You can save received business cards to your phone book.

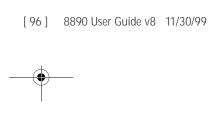
Send a business card

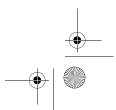
- 1 Recall the name from your phone book.
- 2 Press **Details**, if shown, or skip to Step 3.
- 3 Press Options.
- 4 Scroll to Send bus. card.
- 5 Press Select.
- 6 Enter or recall the phone number to which you want to send the business card.
- 7 Press **OK**.

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.

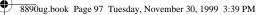


















Your Personal Digital Assistant

- Activate the IR port on the receiving phone.
- Press Select.

The phone sends the business card through its IR port.

Viewing 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!

- When your phone displays **Business card received**, press Options.
- **Show** is selected. Press **OK** to read the information.

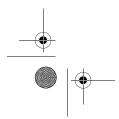
Saving a viewed business card

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

Deleting a viewed business card

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





















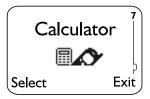




Calculator

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.



Using the calculator

- 1 Press Menu 7.
- 2 Enter the first number in the calculation Press #0 to enter a decimal point and press Clear to erase any mistakes.
- 3 To add, press *+ once (+ appears)
 To subtract, press *+ twice (- appears)
 To multiply, press *+ three times (* appears)
 To divide, press *+ four times (/ appears)
- 4 Enter the second number

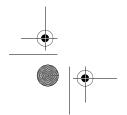
Repeat steps 3 and 4 as needed.

5 Press Options. Equals is selected. Press OK.

Currency conversion

Setting the exchange rate

- 1 Press **Menu** 7, then press **Options**.
- 2 Scroll to Exchange rate, then press OK

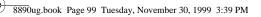


















Your Personal Digital Assistant

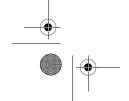
- 3 Scroll to How many home units to a foreign unit (to enter the number of domestic units to a foreign unit) or How many visited units to a home unit (to enter the number of foreign units to a domestic unit)
- 4 Press **OK**
- 5 Enter the exchange rate (press # to enter a decimal point)
- 6 Press **OK**

Converting a currency amount

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











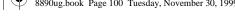
[99]

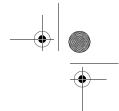














Fax and data calls⁺⁺

The phone can send and receive data through the Nokia Cellular Data Suite PC application (network service). For more details, refer to the documentation supplied with your Nokia Cellular Data Suite and communications applications.

Make a fax or data call

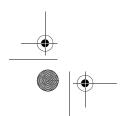
From the Messages menu, select Fax and data or Also voice and press **Select**.

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

- Key in or recall the desired phone number and press **OK**.
- If you selected **Also voice** in step 1, to switch between voice and data/fax mode during a call, press Options, select Yoice Mode or Data Mode (or Fax Mode) and press OK.
- After the transmission, end the call by pressing .

Receive a data or fax call

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





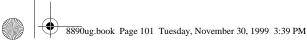


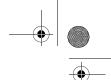














Your phone and other devices

Sending 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.

Preparing 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 two feet of each other.

Receiving data via the IR port

To receive data from another compatible phone:

- Ensure that the two devices are ready for the IR connection.
- 2 Select the Infrared menu to activate the IR port for data reception.
- The user of the sending phone selects 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 started again.

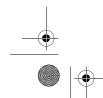
Sending data via the IR port

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.

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• Print a calendar note on a compatible printer.

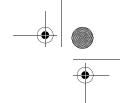














Check the status of an IR connection

The status of an IR connection is indicated by

- When p*** is displayed continuously, there is an IR connection between your phone and the other device.
- When been 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.

Printing using IR

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

Printing text messages

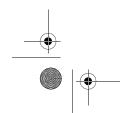
- Press Menu then Select.
- Scroll to where the text message is stored (Inbox or Outbox) and press **Select**.
- 3 Scroll to the message you want to print and press **Read**.
- Press Options and scroll to Print via IR.
- Align the phone's IR port with the printer's IR port.

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.

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

Printing phone book entries

- Recall the name/number you want to print.
- Press **Details**, then **Options**.





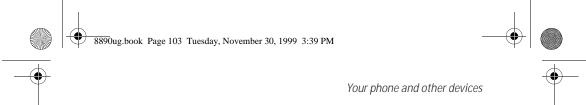










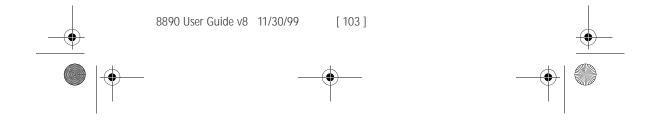


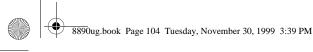
- 3 Scroll to **Print via IR**.
- 4 Align the phone's IR port with the printer's IR port.

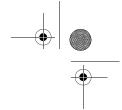
Note: Be sure the phone is within 3 feet of the printer's IR port and that there are no obstructions between the printer's IR port and the phone's IR port.

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











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.

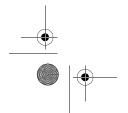
Starting a 2-player game

Snake can be played as a 2-player game.

Before starting a 2-player game, ensure 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.





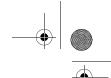














Fun and games

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.

Memory

This 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.

Downloading ringing tones**

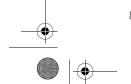
You can download up to five ringing tones to replace the **Personal** entries in your list of ringing tones. For details about this network service, contact your wireless service provider.

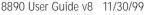
Notification of received ringing tone

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

Listening to received ringing tones

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















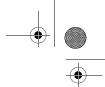








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- 1 When your phone displays **Ringing tone received**, press **Options**.
- 2 Playback is selected. Press OK.

The phone plays the ringing tone.

Saving received ringing tones

- 1 After listening to the ringing tone, press **Back**.
- 2 Scroll to Save tone, then press OK.
- 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.

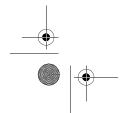
The tone is saved to your list of ringing tones.

Discarding received ringing tones

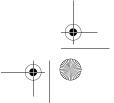
If you don't want to save the ringing tone, press **Exit** without saving it, or scroll to **Discard tone**, then press **OK**.

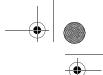














Reference Information

18. Reference Information

Using Batteries, Chargers, and **Accessories**

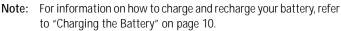
This section provides information about the phone's batteries, accessories, and chargers. Be apprised that the information in this section is subject to change as the batteries, chargers, and accessories change.

This phone is intended for use when supplied with power from an ACP-7U, an ACP-8U, LCH-8, or an LCH-9. 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

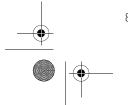
manufacturer. The use of any other type of phone-related hardware will invalidate any approval or warranty applying to the phone, and could also be dangerous For availability of approved batteries, chargers, and accessories, check with your dealer.



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 fullycharged 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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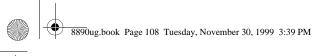
[107]

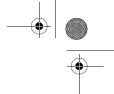














When the battery is running out of power and your phone only has a few minutes of talk time remaining, a warning tone sounds and the **Battery** low message appears briefly. When no more talk time is left, a warning tone is sounded and the phone switches itself off.

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.

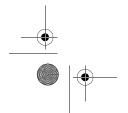
An example of short-circuiting could occur if you carry a spare battery in your pocket or purse, where the battery could come into contact with such objects like a coin. Short-circuiting could damage either the battery or the connecting object.

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 a guideline 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.













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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.

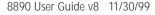
Note: Do not connect incompatible products.

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.









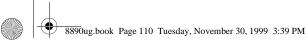


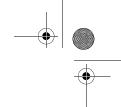














Electronic Devices

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 six 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 six inches (20 cm) from their pacemaker when the phone is switched on
- · should not carry the phone in a breast pocket
- should use the ear opposite the pacemaker to minimize the potential for interference

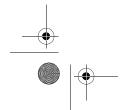
Note: If you have any reason to suspect that interference is taking place, switch off your phone immediately.

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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Reference Information

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.

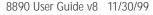
Potentially Explosive Atmospheres

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.











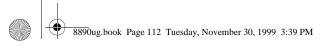


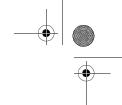














Vehicles

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 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, disrupt the wireless telephone network and may be illegal.

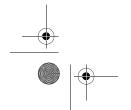
Failure to observe these instructions could lead to the suspension or the denial of telephone services to the offender, or it could result in legal action, or both scenarios could apply.

Emergency Calls

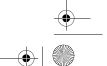


This phone, like any wireless phone, operates using radio signals, wireless and landline networks, and user-programmed functions.

Because of this, connections in all conditions cannot be guaranteed. Therefore, you should *never* rely solely on any wireless phone for essential communications (e.g. medical emergencies).















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Reference Information

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.

Always ensure 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

Making an Emergency Call

- If the phone is not on, switch it on.
- Enter the emergency number for your present location (e.g. 911 or any other official emergency number-emergency numbers vary by location).
- 3 Press 🕥

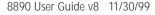
If certain features are in use (Keyguard, fixed dialing, restrict calls, etc.), you might first need to turn those features off before you can make an emergency call. Consult this document and your local cellular service provider.

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

Your wireless handheld portable telephone is a low-power radio transmitter and receiver. When it is ON, it receives and sends out radio frequency (RF) signals.





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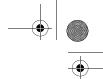














In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines that included safety levels for handheld wireless phones. Those guidelines are consistent with safety standards previously set by both U.S and international standards bodies: ANSI C95.1 (1992)*, NCRP Report 86 (1986)*, ICNIRP (1996)*, and RSS-102 issue 1.

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

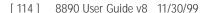
*American National Standards Institute, National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection.

Care and Maintenance

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

When using your phone, battery, charger, or any accessory:

- Keep it and all its parts and accessories out of 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

















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Reference Information

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
- 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.
- 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.



Accessories

If you want to enhance your phone's functionality, a range of accessories are 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.























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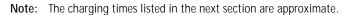
Use only batteries, chargers, and accessories that have been approved by the phone manufacturer. The use of any other types could invalidate any approval or warranty applying to the phone, and could be dangerous. Refer to "Using Batteries, Chargers, and Accessories" on page 106 for important battery usage information.

Batteries

This section provides information about the phone's batteries. Be apprised 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.

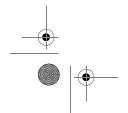
The tables shown in this section provide information about battery options that are available for your phone, charging times with the Rapid Travel Charger (ACP-8U), the Standard Travel Charger (ACP-7U), talk times, and standby times. Consult your service provider for more information.



Charging Times

Battery Option	ACP-7U Charger	ACP-8U Charger
BLB-2 Li-ion Battery 650 mAh	2 hrs 40 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 two hours for a "trickle" or "maintenance" charge.



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Reference Information

Standby and Talk Times

Battery Option	Digital Talk Time	Standby Time
BLB-2Li-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.

Chargers and Other Accessories

This section provides information about the phone's chargers and accessories. Be apprised 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.











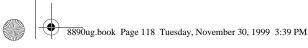


















Standard Travel Charger (ACP-7U)

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-8)

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-8), 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 115.

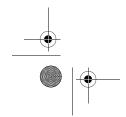


You can charge your phone's battery from your vehicle battery by using the Rapid Cigarette Lighter Charger (LCH-9). You can also use this lightweight charger with the Desktop Charging Stand.



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.



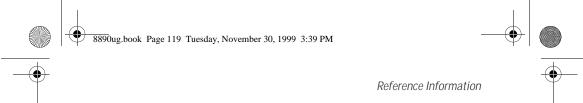










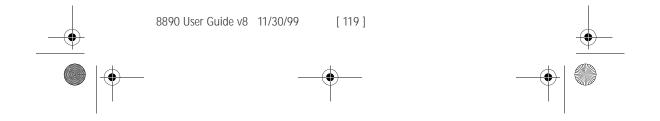


Compact Desktop Charging Stand (DCV-1)

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.

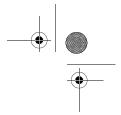
This charging stand allows you to charge your phone's battery in an upright, obtainable position on your desk.











19. Technical information

Weight: 3.2 oz. with BLB-2 battery

Transmitting power: GSM900, 2 W nominal

GSM1900, 1 W nominal

Operating voltage: 3.6V dc

12V dc for car kit

EGSM 900 and GSM 1900 Networks

Frequency band: GSM900:

935 to 960 MHz (TX) 935 to 960 MHz (RX)

GSM1900

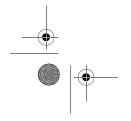
1850 to 1910 MHz (TX)

1930 to 1990 MHz (RX)

Number of channels: 512 to 810 250 in phone Memory locations:

Up to 250 in SIM



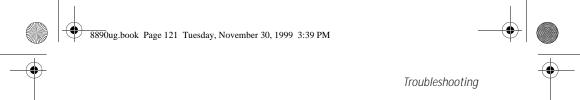








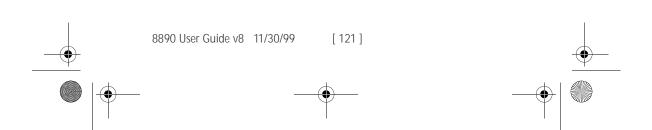




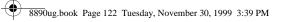
20. Troubleshooting

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.	Ensure 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.











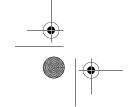




Problem	Possible cause	Possible solution
I can't listen to my voice messages. (continued)	You have not set up your voice mailbox with your service provider.	Call your wireless service provider.
	You have not saved your Voice Mail number in your phone.	Refer to "Voice Mail++" on page 35.
	The Voice Mail 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.





















Frequently Asked Questions (FAQ)

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 text within this quide.

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 21.

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 70 for more information.

Q. How do I unlock my phone?

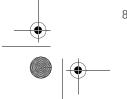
A. Press **Menu** 4 6 1, press **Select**, enter your PIN code, and press **OK**. Scroll to **Off** and press **OK**.

Refer to "PIN and PUK codes" on page 70 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 70 for more information.



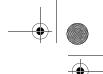
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Q. What is my security code?

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 73 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**. Leave the sliding cover open and press.

Refer to "Locking the keypad (Keyguard)" on page 69 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 .

With the sliding cover open, press **Menu** *+.

Refer to "Locking the keypad (Keyguard)" on page 69 for more information.

Q. How can I close the sliding cover without disconnecting the call?

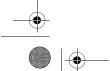
A. Press Options, then close the sliding cover to stay connected. Also, this feature makes it easier to use accessories, such as a headset. Refer to "Using the sliding cover" on page 16.

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 61 for more information.





















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Frequently Asked Questions (FAQ)

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 61 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 **DK**. 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 "Saving 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 100 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 is printed.

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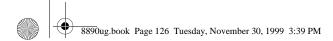


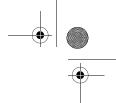














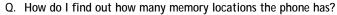
- Q. How do I redial the last-dialed number.
- A. Press twice. See "Redialing the last-dialed number" on page 18.
- Q. How do I assign a key to 1-touch dialing?
- A. Press Names, scroll to 1-touch dialing and press Select.

Scroll to the number you want to assign a a 1-touch dial number and press **Assign**.

Note: If you have numbers saved in SIM memory, the first nine numbers stored automatically stored in keys 1 - 9 as one 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 52 for more information.



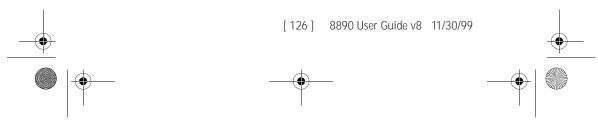
A. Press **Names** and scroll to **Options**.

Press Select.

Scroll to **Memory status** and press **Select** again. A message appears says **Phone: xx free**, **xx in use** where **xx** indicates the amount of memory locations. Scroll to see SIM card memory status1

Q. How do I find my phone's IMEI number?

- 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.













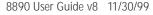
Frequently Asked Questions (FAQ)

NOKIA One-Year Limited Warranty

Nokia Mobile Phones, Inc. ("NMP") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

- 1. The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product.
- 2. The limited warranty extends to the original purchaser of the Product ("Consumer") and is not assignable or transferable to any subsequent purchaser/end-user.
- 3. The limited warranty extends only to Consumers who purchase the Product in the United States.
- 4. During the limited warranty period, NMP will repair, or replace, at NMP's option, any defective parts, or any parts that will not properly operate for their intended use with new or factory rebuilt replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. NMP will also pay for the labor charges incurred by NMP in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. NMP's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. NMP shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.





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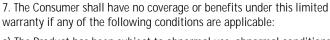






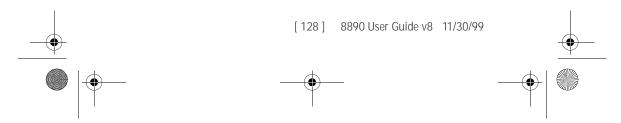






warranty.

- 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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Frequently Asked Questions (FAQ)

- 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.















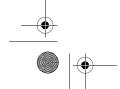




EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NMP SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY 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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Frequently Asked Questions (FAQ)

- 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 Service

7725 Woodland Center Blvd., Ste. 150

Tampa, FL 33614

Telephone: 1-888-NOKIA2U (1-888-665-4228)

or (813) 288-3800

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.

*Nokia is a registered trademark of Nokia Corporation.





