

NOKIA

CONNECTING PEOPLE



**OWNER'S
MANUAL**

**NOKIA
2170**

Quick guide to functions

Note: Many features require you to be at the start screen before you can access them, press and hold (CLR) to do this.

Accessing stored numbers- Press ▼ or ▲

Accessing stored names- Press (ABC), then ▼ or ▲

Answering a call - Press (TALK) or any number key

Answering a call with call waiting- Press (TALK). Press (TALK) to swap calls; press (END) to end both calls (*Call Waiting is a network service that may require a subscription*)

Clearing a digit from the display- Press (CLR)

Clearing the entire display- Press and hold (CLR)

Emergency 9 call- Press and hold 9 for three seconds (*Emergency Key 9 feature must be set to on!*)

Ending a call - Press (END)

Keyguard activation- Press and hold (END) until KEY-GUARD ACTIVE appears, or press Menu *

Keyguard deactivation- Press Menu *

Last number redial- Press (TALK) and wait three seconds

Listening to voice messages- With VOICE MESSAGE on display, press Listen or press and hold the 1 key (requires voice mail subscription)

Making a call - Enter phone number, then press (TALK)

Speed dialing- Press a memory location number (1-100), then press (TALK)

Storing a name and number (Quick Save)

Enter the phone number and press Memory, then press Store. Enter a name if you wish (optional), press Store again, then press OK.

Switching on/off - Press and hold (PWR)

Volume adjust - Press top or bottom volume button (on the left side of the phone)

Quick guide to the menu

Back one level- Press Quit

Entering the menu- Press Menu

Exiting the menu- Press Quit repeatedly, or press and hold 

Scrolling the menu- Press Menu, then ▼ or ▲

Selecting a submenu or option- Press Select or OK

Using shortcuts- Press Menu, then menu number

Menu summary

1 Memory Functions

- 1 Dialed Numbers
- 2 Answered Calls
- 3 Missed Calls
- 4 Clear All Call Lists
- 5 Memory Erase Options
- 6 Memory Status
- 7 Call Timers

2 Messages

- 1 Listen To Voice Messages
- 2 Read Messages
- 3 Set Voice Mailbox Number

3 Call Settings

- 1 Ringing Volume
- 2 Ringing Tone
- 3 One-Touch Dialing
- 4 Emergency Key 9
- 5 Automatic Redial
- 6 Automatic Answer
- 7 Calling Card
- 8 Messages Only Mode

4 Phone Settings

- 1 Lights
- 2 Keypad Tones
- 3 Manual DTMF Tones
- 4 Auto DTMF Length
- 5 Network Time

6 Countdown Timer

- 7 Personal Banner
- 8 Restore Settings
- 9 Menu List
- 10 Language

5 Security Options

- 1 Automatic Phone Lock
- 2 Change Lock Code
- 3 Change Security Code
- 4 Restrict Calls
- 5 Hide Memory

6 Network Services

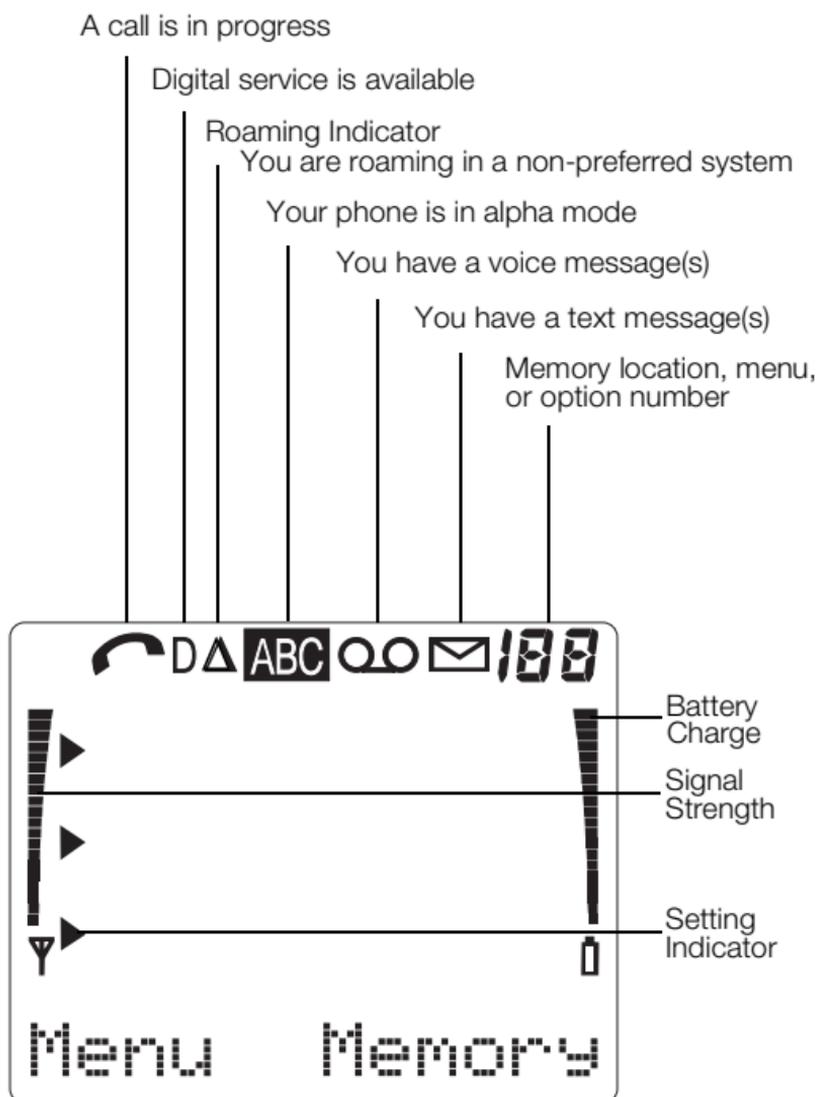
*Items shown with * appear only if this feature has been activated in your phone and is supported by the network.*

- 1 Voice Privacy
- 2 Call Forwarding *
- 3 Call Waiting *
- 4 Selective Call Acceptance *
- 5 Send Own Number *
- 6 Service Search
- 7 Network Feature Setting

7 Phone Number

- 8 Number Editor
- 9 Alert Options
- 10 Activate Keyguard

The Display



Menu and Memory (above) bang with menu selection and determine the function of the soft keys.

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1. Safety At A Glance



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

See "For Your Safety" on page 58.



Road Safety Comes First

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



Switch Off In Hospitals

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



Switch Off In Aircraft

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



Switch Off When Refueling

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



Switch Off Near Blasting

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



Interference

All wireless phones may get interference which could affect performance.



Use Sensibly

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



Use Qualified Service

Only qualified service personnel must install or repair equipment.

Using this Guide

The wireless phone described in this manual is approved for use in CDMA networks.

A number of features included in this guide are called Network Services. They are special services provided by wireless service providers. Before you can take advantage of any of these Network Services, you must subscribe to the service(s) from your home service provider and obtain instructions for their use.

FCC/Industry Canada Notice

Your phone may cause TV or radio interference (e.g. when using a telephone in close proximity to receiving equipment). The FCC/ 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.

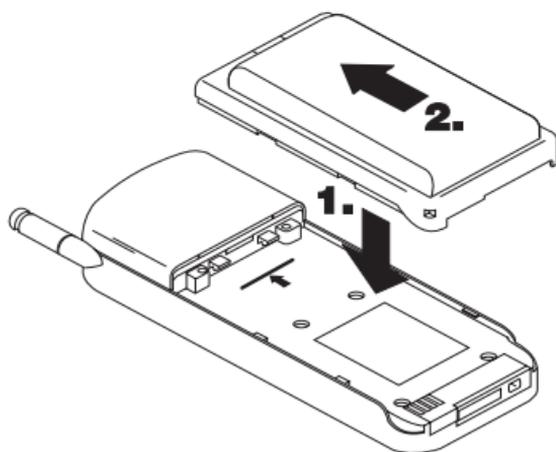
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE CONDITION THAT THIS DEVICE DOES NOT CAUSE HARMFUL INTERFERENCE.

2. Your Phone's Battery

When you first opened the box for your phone, you should have found at least one battery and charger, one phone, and this user guide. *For detailed information on these items, see "Accessories" on page 53.*

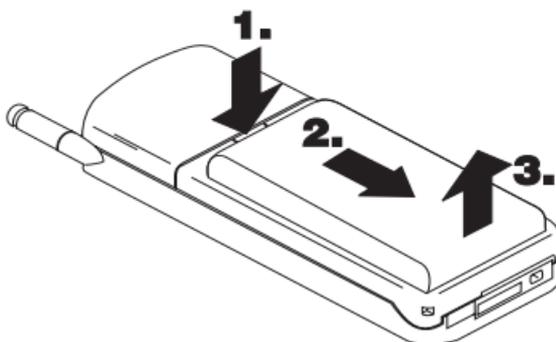
To install your battery

Simply (1) place the battery in the grooves on the back of your phone. Then (2) slide the battery upward until it clicks.



To remove your battery

First switch off your phone. Then (1) press the button on top of your battery, (2) slide the battery back, and (3) lift away from your phone.





New batteries must be charged for at least 24 hours before initial use, with your phone off.

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

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

See "Important battery information" on page 6.

When should you charge?

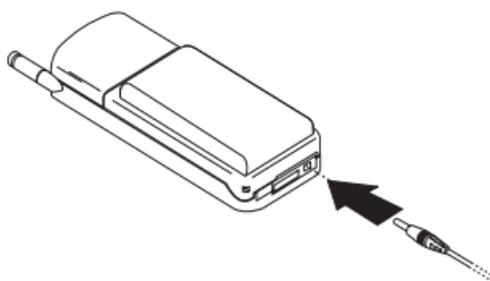
With only a couple of minutes of talk time remaining, your phone will warn you with a tone and BATTERY LOW will appear on your display.



Once all the power has been drained from your battery, you'll hear three beeps with the message RECHARGE BATTERY on your display. At this point, your phone will switch itself off.

To charge or recharge your battery

You can charge your phone while it is on or off. Simply connect the lead from the charger to the bottom of your phone or place it on a charging stand.



Then connect the charger to a standard 120V AC outlet.

When the battery begins charging, the battery strength indicator on the right side of the display will scroll and your phone will beep once.



When is charging complete?

To allow the battery to completely charge, wait for the charge indicators to stop scrolling. At this point, your phone is considered fully charged. However, a slight increase in charge may occur if the phone is left connected to the charger, this is called “trickle charge.”



Charging times depend on which type of battery and charger is used. See “Batteries” on page 53 for details.

When charging is completed, disconnect the charger from the AC outlet and from your phone.

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

Can you make calls while charging?

Yes, you can. But your battery will not charge while a call is in progress. Charging will resume when you end the call.

What if charging fails?

If your phone displays NOT CHARGING, charging is suspended. Make sure the battery is connected to an approved charging device and that the battery is at room temperature. Extreme temperatures, hot or cold, can affect your battery’s performance and prevent charging.

If charging still fails, disconnect the charger from your phone. Then reconnect the charger to your phone and retry. If you still experience charging problems, contact your dealer and, if necessary, bring your phone in to have it serviced. Also remember to bring in your battery and charger.

To discharge your battery

There are two ways to properly discharge a battery. You can leave your phone on while your battery drains, finally turning itself off. Or you can use the discharge facility of any approved accessory equipped with this feature.

Important battery information

Use only batteries and chargers approved by the phone manufacturer.

When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week; overcharging may shorten its life.

If left unused, a fully charged battery may completely drain (discharge) in 1 - 4 weeks.

Never use any charger or battery that is damaged or worn out.

Use the battery only for its intended purpose.

Do not short circuit the battery. Accidental short circuiting can occur when a metallic object (e.g. coin, clip or pen) causes direct connection of the two terminals of the battery (metal strips on the back of the battery), for example, when you carry a spare battery in your pocket or purse. Short circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, reduces the capacity and lifetime of the battery. Always try to keep the battery between 41°F and 95°F (5°C and 35°C). A phone with a hot or cold battery may temporarily not work (or charge) even if the battery is fully charged. NiMH battery performance is particularly limited in temperatures below 14°F (-10°C).

Temperature extremes affect the ability of your battery to charge: allow it to cool down or warm up first.

When the battery is not in use, store it uncharged in a cool, dark and dry place.

The battery is a sealed unit with no serviceable parts. Do not attempt to open the case.

It is recommended that you allow your battery to fully discharge before you recharge it.

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

Do not dispose of a battery in a fire!

Dispose of used batteries in accordance with local regulations. Recycle!

3. Signal Strength

Your phone operates on radio waves, and the quality of radio reception depends entirely on the strength of the radio signal in your area.

Because the radio coverage is maintained by a wireless network, the quality of calls on a wireless phone depends on the strength of the wireless radio signal.

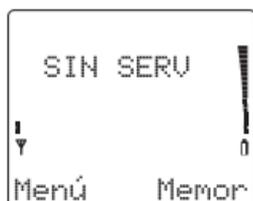
The stronger the radio signal, the better the call quality. A strong signal is indicated by the signal indicators on the left side of your phone's display, which scroll as the strength of the signal increases and decreases.



Increasing your phone's signal may be easy. Try moving your phone slightly, or move towards a window if you're calling from inside a building.

No service

If you're outside the wireless service area, **NO SERVICE** will display on your phone. No calls can be made or received, including emergency calls.



Unavailable service

When network service is unavailable from your service provider or its affiliates, emergency calls may be possible via other networks to their designated emergency number only (e.g. 911 or some other official emergency number).



Your phone's display will remain empty, but a Δ will appear at the top of your screen. No other calls can be made or received.

Also, see "To Make An Emergency Call" on page 10.

4. The Basics

Your phone has many different features, some more advanced than others. This chapter highlights some very basic features which you are most likely to use every day.

Cool Features

Did you know that you can lock the keys on your phone to prevent accidental key presses and phone calls? Or that you can call someone with the touch of a single button? You can also stop your phone from ringing without even answering the call. These are called Cool Features.

These are just some of the many Cool Features you'll find in your phone. Look for the  icon throughout this owner's manual to see how you can use these Cool Features.

To Switch Your Phone On

- 1) Press and hold  for about three seconds
- 2) If you want to make a call, fully extend the antenna for optimum performance



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

TIPS ON EFFICIENT OPERATION: Extend your antenna fully when in calls. As with any other radio transmitting device, avoid unnecessary contact with 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 the phone on when cellular phone use is prohibited or when it may cause interference or danger.

To Answer A Call

Simply press and release 

You can also press any other key on your phone to answer an incoming call, with the exception of the , , and  keys.

Want to stop your phone from ringing without answering it?



Simply press **END**. This keeps you from answering a call when it's inconvenient to talk. You can still answer the call by pressing **TALK** if **CALL** is still flashing on your display.

It's also a great way to screen your calls if you don't want to be disturbed. You'll know who called as soon as your phone rings if you subscribe to Caller ID. And if you have Voice Messaging, the call will be forwarded to your voice mailbox.

See "Caller ID" on page 14 and "Voice Messages" on page 39 for more information on these features.

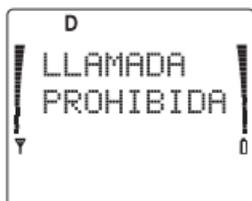
To Make A Call

- 1) Extend the antenna
- 2) Enter the phone number, include area code if necessary
- 3) Press **TALK**

If the call didn't go through

It may be because the signal is too weak, in which case you'll hear three beeps and the  icon disappears from the display.

It may also be because you have attempted a call to a restricted number or your phone is locked. If this happens, you may get the message **CALL NOT ALLOWED** on your display.



See "Signal Strength" on page 7, "Menu 5 4, Restrict Calls" on page 45, and "Automatic Phone Lock" on page 44 for more information.

If you make a mistake dialing

Press **CLR** to delete the last character, or press and hold **CLR** to clear the entire display.

When you want to hang up

Press **END**

The Start Screen

When you first turn your phone on, the current date and time may be on the display if this feature has been activated (see “Menu 4 5, Network Time” on page 30). This is called the start screen.

How do you get to the start screen?

Press and hold **CLR**

Throughout this manual, you may notice that before you can access certain features, it's necessary to go to the start screen before you can use them.

To Make An Emergency Call

Before attempting any emergency calls, see “Emergency Calls” on page 61 for important safety information.

- 1) Switch your phone on and make sure service is available (see “Signal Strength” on page 7 for details)
- 2) Press and hold **CLR** to go to the start screen. Enter the emergency number (e.g. 911) and press **TALK**. Give your location and do not end the call until permission is granted.

Emergency Key 9

This feature allows you to attempt emergency calls with a single push of a button. Emergency Key 9 (Menu 3 4) must be ON for this feature to work.

Press 9 then **TALK**

OR

Press and hold 9 for more than 4 seconds

Note: When Keyguard is ON, calls may be possible to the emergency number programmed into your phone (e.g. 911 or other official emergency number). However, Emergency Key 9 will not operate.

IMPORTANT!

This phone, like any wireless phone, operates using radio signals, wireless and landline networks, as well as user-programmed functions which cannot guarantee connection in all conditions. Therefore, you should never rely solely upon any wireless phone for essential communications (e.g., medical emergencies).

Remember, to make or receive any calls, the phone must be switched on and in a service area with adequate wireless signal strength.

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

If certain features are in use (e.g., Keyguard, Restrict calls, etc.), you may first need to turn those features off before you can make an emergency call. Please read this manual thoroughly and contact your local wireless service provider.

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

Note: Official emergency numbers vary by location (e.g. 911 or other official emergency number). However, only one emergency number is programmed into your phone to be dialed automatically by Emergency Key 9, which may not be the proper number in all circumstances. Emergency Key 9 does not operate when certain features are in use (e.g., Keyguard, Restrict calls, etc.)

Keyguard

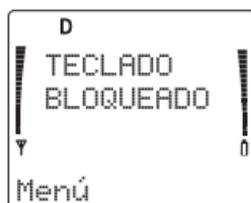
This feature helps prevent accidental key presses, especially if you wear your phone on a belt clip or keep it in your pocket.

When Keyguard is activated and there is no call in progress, key presses will not be accepted and key tones will not be generated, except for calls to 911 (or other official preprogrammed emergency numbers) and **TALK** and **END**. If the **PWR** key is pressed, the lights will come on.

Note: Keyguard cannot be activated when your phone is connected to a car kit or an office handsfree kit.

To quickly activate Keyguard

Press and hold **(END)** until KEY-GUARD ACTIVE appears on your display.



This will remain on the display for about two seconds, then the network time will appear if this feature has been turned on and you are in a digital network.

See “Menu 4 5, Network Time” on page 30 for details.

This method of activating Keyguard can be used at any time, even at the end of a call.

Another way of activating Keyguard

Press and hold **(CLR)** to go to the start screen,

Press Menu, then *

A third way to activate Keyguard

You can activate Keyguard a third way by pressing Menu 10. Your phone will then be protected from any unwanted key presses.

To deactivate Keyguard

Press Menu, then *

To answer a call with Keyguard active

Press **(TALK)**

During the call, the keypad remains unlocked for normal operation. Keyguard automatically reactivates after the call is completed.

When placing an emergency call with Keyguard active, the emergency number is displayed only after you've keyed in all of the digits. After the emergency call, Keyguard automatically becomes active again.

Note: When Keyguard is ON, calls may be possible to the emergency number programmed into your phone (e.g. 911 or other official emergency number). However, Emergency Key 9 does not operate.

Speed Dial

Speed Dial is a convenient feature, allowing you to make phone calls quickly and easily. Your phone recalls the phone number from your personal directory, displays it briefly, then dials it.

- 1) Enter memory location number (2 to 99)
- 2) Press **TALK**

Note: Memory location 9 only works when Emergency Key 9 is set to Off. When set to On, the programmed emergency number overrides this Speed Dial location.

See “Emergency Key 9” on page 10 and “Your Personal Directory” on page 17.

One-Touch Dialing

This feature operates very much like Speed Dial, except it's even easier to use. If you plan on using this feature, you'll need to store your most frequently-dialed numbers in memory locations 2 through 8.

Once you have turned One-Touch Dialing on with Menu 3 3,

Press and hold the key (2 through 8 only) for a few seconds to call the number in the corresponding memory location.

Note: When using the Speed Dial and One-Touch Dial features, remember that the 1 and 9 keys are designated for your voice mailbox and for attempting emergency calls (only if Emergency Key 9 is On).

Also, see “Menu 3 3, One-Touch Dialing” on page 26 and “Emergency Key 9” on page 10 for more information.

Last Number Redial

This feature allows you to quickly redial the last number you dialed.

Press and hold **CLR** to go to the start screen, then press **TALK** and wait three seconds

If you want to see the last ten numbers you have dialed, press **TALK**, and then quickly press ▼ or ▲ to scroll

through the list. This must be done quickly, otherwise the last number dialed will be redialed.

Once the phone number you wish to dial is displayed, simply press **TALK** again.

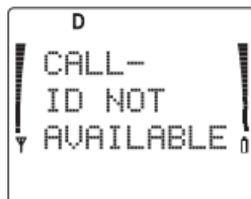
Caller ID

Caller ID is a feature that may be available from your service provider. This feature helps identify incoming calls, so you can decide if you want to answer the call.

If Caller ID is active, your phone may display the caller's phone number. If the caller's name is stored in your personal directory, the associated name will be displayed instead of the number.

CALL or CALL-ID NOT AVAILABLE displays when the number isn't available.

Contact your service provider for availability and subscription information.



For details on storing names and numbers, see "Your Personal Directory" on page 17.

Distinct Ringing

You may set your phone to ring distinctly when someone calls. Just store the person's name and number in your personal directory and include the character "!" somewhere in the person's name (e.g. Martha!). Your phone will then ring distinctly when there's an incoming call from that person's number.

Note: To use this feature, you must subscribe to Caller ID.

For details on storing names and numbers, see "Your Personal Directory" on page 17.

Call Waiting

With Call Waiting, the active call is put on hold as you answer another incoming call. This service may be provided by your service provider.

When Call Waiting has been activated, your phone will beep to let you know you have an incoming call. Your phone may also display the incoming caller's identification.

To activate or deactivate Call Waiting

In some areas, your service provider may give you a feature code to activate or deactivate Call Waiting. You may choose to store this code into your phone using Menu 6 7, Network Feature Setting.

Use Menu 6 3 to **Activate** or **Cancel** Call Waiting.

In other areas, this may not be necessary depending on your service provider.

This feature appears on the menu only when activated with Menu 6 7. See "Menu 6 6, Service Search" on page 36 for details.

To answer a waiting call

Press **TALK**

To swap active and held calls

Press **TALK** to switch between calls

Earpiece Volume

The two buttons on the side of your phone are your phone's volume keys. The upper button increases and the lower button decreases the volume of your phone's earpiece.

These buttons also control the volume for most connected accessories. When adjusting the volume for your phone while connected to certain accessories (i.e. car kit, headset, etc.), please refer to any documentation that may come with that product.

To mute your phone's microphone

If you wish to put a caller on hold during a phone call, you can mute your phone's microphone.

During an active call,

- 1) Press and hold left  for a second
- 2) Press ▼ or ▲ to Mute
- 3) Press OK



Note: This feature is only available during a call.

To unmute your phone's microphone

Follow the same steps as above, except press ▼ or ▲ to Unmute and press OK.

For more information on DTMF tones, please see "Touch Tones" on page 50.

5. Your Personal Directory

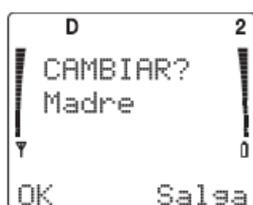
You can store up to 100 numbers and associated names in your personal directory. This gives you easy access to your most frequently-dialed phone numbers.

Stored numbers may be as many as 16 digits long. Stored names may be up to 16 characters long.

Your phone has 8 “extended number” locations (of your choice) that allow the stored number to contain as many as 30 digits in addition to the stored name.

Identical names may not be used more than once in memory.

REPLACE? followed by the currently stored name appears when you try to store a name already in memory.



Alpha Mode

To enter names, retrieve numbers based on names, and view names, press **ABC**. Your phone displays **ABC** to indicate that you can use the number keys to enter letters as well as numbers, and that you are viewing names.

When a number is displayed, press **ABC** to see the associated name (if there is one). When a name is displayed, press **ABC** to see the associated number.

When **ABC** is displayed, you can enter these characters:

Key	Characters	Key	Characters
1	1	7	PQRS7
2	ABC2	8	TUV8
3	DEF3	9	WXYZ9
4	GHI4	0	- ? ! , . : " ' & \$ () 0
5	JKL5	*	Advance to the next space
6	MNO6	#	Blank space

The “!” character is used for distinct ringing. See “*Distinct Ringing*” on page 14 for more information.

To switch from upper to lower case



When storing names into your personal directory, simply press and hold the corresponding key to the letter you wish to enter. The letter will automatically switch from upper to lower case. Simply repeat this step to switch back and forth between cases. Press **(CLR)** to correct any mistakes.

Special Characters

When **ABC** is not displayed, you can use the * key to enter these special characters:

Press This Key:	To Get This Special Character:
**	+, links memory locations together
***	p, creates a pause
****	w, causes the phone to wait for input

Also, see “*Touch Tones*” on page 50 for more information on using special characters.

To store a name

- 1) Press **(ABC)**
- 2) Press and release the key labeled with the letter you want until it appears
- 3) For another letter on the same key or another key, quickly press * after the first letter, or wait a few seconds

To Store Numbers and Names



Enter number,
then press Memory



Press Store



Enter name (optional)



Press Store



Press OK



Phone displays
STORED

To fast save

- 1) Enter phone number
- 2) Press and hold Memory

To add a name to a stored phone number

- 1) Recall stored number (notice memory location at top, right corner of display; write this number down to use in step 4)
- 2) While number is displayed, press  then enter name
- 3) Press Memory, then Store
- 4) At STORE IN LOCATION? enter recalled location number from step 1
- 5) Press OK twice

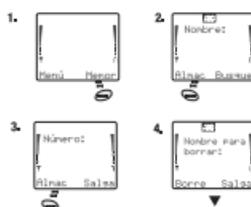
To change the number stored with a name

- 1) Recall stored number
- 2) Press **(CLR)** repeatedly to erase number
- 3) Enter new number
- 4) Press Memory
- 5) Press Store, then OK at REPLACE?

To erase stored names and numbers

Press and hold **(CLR)** to go to the start screen,

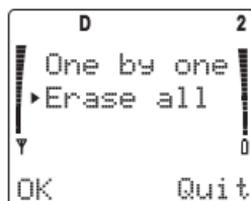
- 1) Press Memory
- 2) Press Store, then Store again
- 3) Press ▼ to name you wish to erase, or enter name, or press **(ABC)** to see numbers, then ▼
- 4) Press Erase



Note: Erase functions are permanent, so be careful!

To erase all stored numbers

- 1) Press Menu 01 5
- 2) Press ▼ to Erase All, press OK
- 3) Enter security code at Security code:, press OK
- 4) Press OK at ARE YOU SURE?



To recall stored numbers

Press and hold **(CLR)** to go to the start screen

- 1) Press ▼ or ▲
- 2) Press **(TALK)** to call the displayed number

Press ▼ or ▲ repeatedly to scroll through stored numbers.

To recall stored names

Press and hold **(CLR)** to go to the start screen,

- 1) Press **(ABC)** then **▼** or **▲**
- 2) Press **(TALK)** to call the displayed name

Press **▼** or **▲** repeatedly to scroll through stored names.

To recall numbers by memory location

- 1) Enter location number
- 2) Press **Memory**
- 3) Press **Find**
- 4) Press **(TALK)** to call the displayed number or name.

To recall numbers by name



- 1) Press **Memory**
- 2) Enter name or its first few letters
- 3) Press **Find**



Your phone may find more than one entry that begins with the same letter.

Use **▼** or **▲** until the desired name appears.

To begin scrolling at a particular location

Enter first digit of the location, then *, then **▼**

If you press 2* then **▼**, for example, your phone begins scrolling at location 20, if you have numbers stored in that location. This is handy if you've grouped stored numbers.

Status of your Personal Directory

Use Menu 01 6 to scroll through the number of empty, full, and hidden locations.

6. The Menu

Your phone contains menus and submenus, giving you access to certain features and allowing you to customize your phone to suit your individual preferences.

Menu Guidelines

Menu enters your phone's menu structure

▼ and ▲ scroll through menus, submenus, and options

Press **Select** or **OK** to enter submenus or choose options

Press **Quit** to close the current submenu and return to the previous menu or submenu

CLR exits the menu without making changes

Help text

If you access a menu and are not quite sure what it does, press **ABC** or wait just a few seconds and a brief description of that feature will automatically appear on your display.

Menu & submenu shortcuts



Press **Menu**, then menu number, then submenu number

The menus, submenus and setting options are numbered. The number is shown in the display's top right corner. Once you reach the menu or submenu you want, you can also use ▼ or ▲ to see other options.

Press the menu, submenu, and setting numbers within a couple of seconds of each other when using this method. Most of the instructions given in this guide use this method, e.g. to access the Dialed Numbers submenu, simply press the **Menu** softkey, then 01 1.

Summary of Menu Functions

Memory Functions Menu 01

- 1 Dialed Numbers
- 2 Answered Calls
- 3 Missed Calls
- 4 Clear All Call Lists
- 5 Memory Erase
Options
- 6 Memory Status
- 7 Call Timers

See page 47 for details

Messages Menu 2

- 1 Listen To Voice
Messages
- 2 Read Messages
- 3 Set Voice Mailbox
Number

See page 39 for details

Call Settings Menu 3

- 1 Ringing Volume
- 2 Ringing Tone
- 3 One-Touch Dialing
- 4 Emergency Key 9
- 5 Automatic Redial
- 6 Automatic Answer
- 7 Calling Card
- 8 Messages Only Mode

See page 25 for details

Phone Settings Menu 4

- 1 Lights
- 2 Keypad Tones
- 3 Manual DTMF Tones
- 4 Auto DTMF Length
- 5 Network Time
- 6 Countdown Timer
- 7 Personal Banner
- 8 Restore Settings
- 9 Menu List
- 10 Language

See page 29 for details

Security Options Menu 5

- 1 Automatic Phone Lock
- 2 Change Lock Code
- 3 Change Security Code
- 4 Restrict Calls
- 5 Hide Memory

See page 43 for details

Network Services Menu 6

*Items shown with an * appear on the menu ONLY if this feature has been activated in your phone and is supported by your service provider.*

- 1 Voice Privacy
- 2 Call Forwarding *
- 3 Call Waiting *
- 4 Selective Call
Acceptance *
- 5 Send Own Number *
- 6 Service Search
- 7 Network Feature
Setting

See page 33 for details.

Phone Number Menu 7

This feature allows you to view your mobile phone number. This is handy if you tend to forget your own phone number.

See page 37 for details.

Number Editor Menu 8

This feature allows you to edit the presently displayed phone number. This helps when you need to add a prefix to a number stored in your personal directory when you want to call that number while roaming.

See page 37 for details.

Alert Options Menu 9

You can select the alert options for your phone. You can set your phone to ring, beep once, vibrate, or remain silent when you have a call.

See page 38 for details.

Activate Keyguard Menu 10

There are several ways to activate your phone's Keyguard. This feature helps prevent accidental key presses when your phone is in your pocket or purse.

See page 11 for details.

Menu 1, Memory Functions

See “*Your Personal Directory*” on page 17 for information on how to store numbers and names into your personal directory.

“*Temporary Lists & Call Timers*” on page 47 shows how your phone automatically stores the last 10 dialed numbers, numbers of the last 10 answered calls, and numbers of the last 10 missed calls.

Menu 2, Messages

See “*Messages & Pages*” on page 39 for information on how to use your phone’s voice mail and how to receive text messages and pages.

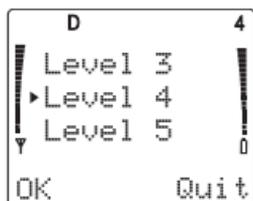
Menu 3, Call Settings

You can customize your phone by setting its ringing volume and tone with Call Settings. You can also activate some key features such as One-Touch Dialing and Emergency Key 9, as well as storing up to four long-distance calling cards.

Menu 3 1, Ringing Volume

You hear each ringing level as you scroll through the volume levels.

When your phone is connected to an accessory, such as a headset or a car kit, the ringing volume for that accessory can be set individually with this feature.

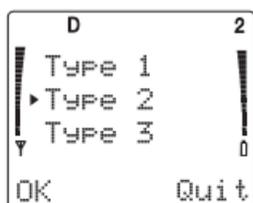


Menu 3 2, Ringing Tone



Wait a couple of seconds as you scroll through the list and listen to each ringing tone.

Note: The ringing tone selection will remain the same for all accessories.



Menu 3 3, One-Touch Dialing

With this feature on, you can dial any of the phone numbers stored in personal directory locations 2-8 by pressing and holding the number of the personal directory location. The default setting is Off.

See “One-Touch Dialing” on page 13 for more information.

Note: Pressing and holding 9 causes your phone to attempt to make an emergency call if you’ve turned on the Emergency Key 9 feature (Menu 3 4).

Menu 3 4, Emergency Key 9

With this feature on, you can use the 9 key to attempt emergency calls to the emergency number preprogrammed into your phone. Either press and hold 9 or press 9 then **TALK**. The default setting is Off.

Note: When Keyguard is ON, calls may be possible to the emergency number programmed into your phone (e.g. 911 or other official emergency number). However, Emergency Key 9 will not operate.

See “Emergency Key 9” on page 10 and “Keyguard” on page 11 for more information.

Menu 3 5, Automatic Redial

When this feature is on, your phone redials the number you are trying to call up to 3 times. Press **END** to stop the call attempts. The default value is Off.

Note: This feature attempts to redial numbers when the wireless network is busy. It will not redial numbers to a busy party.

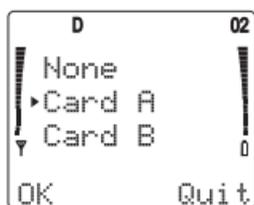
Menu 3 6, Automatic Answer

When your phone is connected to a headset or the handsfree facility of a car kit, you can set your phone to answer calls automatically after one ring. If you wish to activate this feature, simply press Menu 3 6 and follow the prompts.

The default setting is Off.

Menu 3 7, Calling Card

Storing a calling card into your phone makes it simple to make calling card calls. However, you must first store your calling card information into your phone. Your phone can store up to four different calling cards.



Once the card's information is stored and selected with Menu 3 7, your phone will automatically use this card when you make calling card calls unless you select a different one.

To store a calling card

Once you press Menu 3 7, your phone lists Card A–D and None. Press ▼ to select the card you want and press OK.

Enter your five-digit security code at the Security Code: prompt, then press OK. This gives you the SELECT DIALING SEQUENCE screen. Press Select and select the sequence your card uses. If you're not sure which dialing sequence you should use, refer to the back of your calling card.

For example, if you must 1) dial the 1-800 access number, then 2) enter your calling card number and PIN, then 3) dial the phone number, then you must select that dialing sequence (see chart) for your phone.

After you have selected the dialing sequence, you must store the information necessary for that dialing sequence, such as the access number, card number and PIN.

If you wish to store the name of the calling card, you must press (ABC) while Access number: or Card number: is displayed.

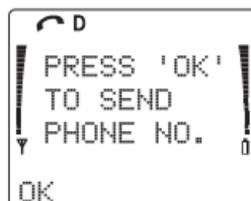
For more information on your phone's security code, see "Security Features" on page 43.

Dialing Sequence	Use for cards that require you to:	Cards using this sequence*
Access No. + Phone No. + Card No. + PIN	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. + PIN + Phone No.	Dial 1-800 access number, then card number + PIN (if required), then phone number	networkMCI, WorldPhone MCI
Prefix + Phone No. + Card No. + PIN	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

* These calling cards are frequently used with these dialing sequences. However, they may vary and are subject to change at the phone company's discretion.

To make a calling card call

- 1) Enter the phone number, including any prefix that your calling card may require
- 2) Press and hold **TALK** for a few seconds until the phone displays **CARD CALL**
- 3) When you hear a tone or voice prompt, press **OK**. When you hear another tone or voice prompt, press **OK** again.



You may also use the keypad, when necessary, to send any other numbers that must be sent along with any stored calling card information.

To change stored calling card information

If you wish to change any calling card information already stored in your phone, simply follow the same instructions used to store a new calling card.

The dialing sequence that appears first is the one that is currently selected. To enter a new access number or card number, press **CLR** repeatedly to erase old numbers and enter new information as needed.

Menu 3 8, Messages Only Mode

See “To activate Messages Only Mode” on page 42.

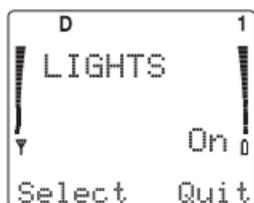
Menu 4, Phone Settings

This feature allows you to customize some of your phone’s settings.

Menu 4 1, Lights

When you turn the lights **On**, your phone’s display and keypad will light up for fifteen seconds whenever you press a key, when someone is calling, or when you connect your phone to any accessory. They’ll stay on permanently if your phone is connected to a car kit.

When you turn the lights **Off** while your phone is connected to a car kit, your phone’s display and keypad will illuminate for fifteen seconds whenever someone calls.



However, when your phone is used by itself or it’s connected to any accessory other than a car kit, the lights will not come on at any time when the lights are set to **Off**. The default setting is **On**.

Regardless of the setting, if you wish to turn your lights **On** at any time, simply press **PWR** quickly.

Menu 4 2, Keypad Tones

Keypad tones are the sounds you hear when you press any key on your phone’s keypad. You can select the volume level of this tone, or you can turn it off. The default setting is **Level 2**.

Note: The keypad tone volume is set separately for each accessory you use.

Menus 4 3 and 4 4, Manual DTMF Tones and Auto DTMF Length

Because your phone is a touch tone phone, it creates certain sounds when you press its keys. These tones can be used for many automated, over-the-phone services such as checking your bank balance, using your voice mailbox options, and even checking airplane arrival and departure times. These two features set the length of your phone's touch tones when pressed manually or sent automatically.

See "Touch Tone Settings" on page 50 for details.

Menu 4 5, Network Time

You can set your phone to display the day of the week, date and time when your phone is in idle state and during a call.

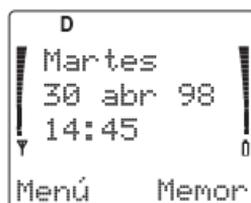
Because this feature is network-supported, there is no need to set the date or time. However, this feature only functions in areas where digital service is available.

To display network time

Your phone can display both time and date, or just the time.

Press and hold **(CLR)** to go to the start screen,

- 1) Press Menu 4 5
- 2) Press ▼ or ▲ to desired setting (Date&Time, Time, and Off)
- 3) Press OK



The default setting is Date&Time.

Note: When activating the Personal Banner and Network Time features at the same time, they will display simultaneously, with the Network Time taking precedence.

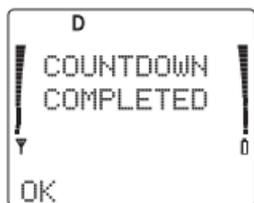
Also, see "Menu 4 7, Personal Banner" on page 31.

Menu 4 6, Countdown Timer

If you want to set your phone to sound an alarm within a specified period of time (e.g. in ten minutes), simply set your phone's Countdown Timer.

- 1) Press Menu 4 6
- 2) Enter time to count down at Set timer: (e.g. 0010 for ten minutes)
- 3) Press OK

Your phone sounds an alarm and displays COUNTDOWN COMPLETED when the time you have entered has elapsed. The timer stops if the battery runs out or if you turn your phone off.



An incoming call overrides the timer alarm. After you've completed the call, COUNTDOWN COMPLETED appears, but your phone does not sound an alarm.

To stop the timer before the alarm sounds

Follow the steps above, except enter 0000 at Set timer:

To clear the alarm when it's sounding

Press OK or any other key.

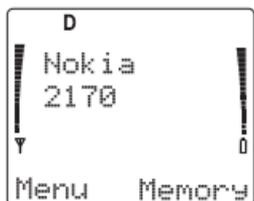
Menu 4 7, Personal Banner

This feature allows you to store a personal message that will display whenever your phone is in its idle state. The message can be up to 20 characters long, and you can edit or erase the message at any time.

To store or edit a banner message

Press and hold CLR to go to the start screen,

- 1) Press Menu 4 7
- 2) Enter your message using your phone's keypad (use the # key to enter blank spaces)
- 3) Press Option
- 4) Press ▼ or ▲ to Store, then press OK



To erase a banner message

Press and hold **CLR** to go to the start screen,

- 1) Press **Menu 4 7**
- 2) Press **Option**
- 3) Press **▼** or **▲** to **Erase**, then press **OK**

Note: When activating the Personal Banner and Network Time features at the same time, they will display simultaneously, with the Network Time taking precedence.

Also, see “Menu 4 5, Network Time” on page 30.

Menu 4 8, Restore Settings

This option allows you to reset the settings of most menu features to factory defaults (the same as when you first received your phone).

If you wish to restore your settings, simply press **Menu 4 8** and follow the prompts. Have your security code handy, because you'll need it to use this feature.

Note: The memory, calling card information, timers, counters and the language selection are not reset.

Menu 4 9, Menu List

This feature lets you choose either a shortened or complete menu list. If you wish to use this feature, simply press **Menu 4 9** and follow the prompts.

The complete menu contains all menu items, whereas the short menu shows only the most essential menu items, namely: **Messages** (LISTEN TO VOICE MESSAGES, READ MESSAGES, SET VOICE MAILBOX NUMBER), **Phone Settings** (RESTORE SETTINGS, MENU LIST), **Alert Options**, and **Activate Keyguard**. The default setting is **Complete**.

Menu 4 10, Language

You can choose English, Spanish, or French for all of your phone's displays. To set your phone to a different language, just press **Menu 4 10** and follow the prompts. The default setting for your phone is English.

Menu 5, Security Options

Your phone contains many security features, such as hiding memory locations, restricting calls, and locking your phone.

For information on these and other security features, see “Security Features” on page 43.

Menu 6, Network Services

Some of the features described in this section are network services, which may not appear in your phone’s menu unless you store the feature code you received from your service provider.

Storing feature codes is optional for using any network service. Contact your service provider for more information about feature codes and how to use them.

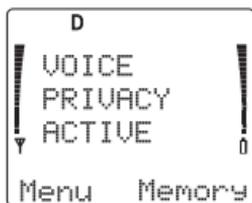
For more information, see “Menu 6 7, Network Feature Setting” on page 36.

Menu 6 1, Voice Privacy

With Voice Privacy set to **On**, your phone is capable of encrypting voice information. This helps protect you against phone fraud and eavesdropping. The operation of this feature depends on the networks ability to support voice encryption.

If Voice Privacy is on while in a network that supports this feature, your phone will display **VOICE PRIVACY ACTIVE**.

Check for availability of this feature from your service provider.



Menu 6 2, Call Forwarding

This feature is a network service that must be subscribed from your service provider. This feature is used to forward incoming calls to another specified number so you won't miss any calls.

This menu and its submenu items appear on the menu only if activated with Menu 6 7. Contact your service provider for details.

To activate Call Forwarding

- 1) Press Menu 6 2
- 2) Press ▼ to desired option (see below)
- 3) Press OK
- 4) Press ▼ to **Activate** or **Cancel**
- 5) Enter phone number that calls are to be forwarded to at **Number:**
- 6) Press OK

This forwards your calls to the number that's already on display before you select **Activate** or the phone number you entered at **Number:**.

FORWARD ALL CALLS (Menu 6 2 1) forwards all incoming calls.

FORWARD IF BUSY (Menu 6 2 2) forwards calls only when you're on the phone.

FORWARD IF NOT ANSWERED (Menu 6 2 3) forwards calls if you don't answer.

FORWARD IF NOT REACHABLE (Menu 6 2 4) forwards calls if you are out of the network's range.

CANCEL ALL FORWARDING (Menu 6 2 5) cancels all call forwarding options you have active.

Menu 6 3, Call Waiting

Please see "Call Waiting" on page 15.

Menu 6 4, Selective Call Acceptance

This feature allows you to program the network to screen incoming calls. The caller's phone number is compared to either an allowed numbers list or a blocked numbers list, and the call is either rejected or allowed.

- 1) Press Menu 6 4

- 2) Press ▼ to Allowed Numbers List or Blocked Numbers List
- 3) Press ▼ to Activate, Deactivate, or Edit
- 4) Press OK

This menu and its submenus appear on the menu only if activated with Menu 6 7. Contact your service provider for details.

Allowed Numbers List allows calls when incoming caller's number matches one on the allowed numbers list.

Blocked Numbers List rejects calls when incoming caller's number matches one on the blocked numbers list.

The Activate option turns the restriction on. The Deactivate turns the restriction off. The Edit option allows you to add or remove numbers from the list.

If you select Edit, you have three different options:

Add No. will add numbers to your list.

Remove No. removes numbers from your list.

Remove All will clear the entire list.

Confirm your selection or setting with OK.

Menu 6 5, Send Own Number

This feature specifies whether or not to display (i.e. Send) your phone number to the person you are calling, on a call-by-call basis.

Press Menu 6 5 before dialing. Then choose Yes or No and enter the number you wish to call at Number:, then press **TALK** to dial.

Or, if you prefer, you can dial the number first. Then press Menu 6 5, choose Yes or No, and press **TALK** or OK to dial the number.

If you don't make a selection, your phone uses the default network setting of the network you're calling from. Check with your service provider for details.

This menu appears on the menu only if activated with Menu 6 7. Contact your service provider for availability.

Note: This feature functions only in systems equipped with Caller ID.

Menu 6 6, Service Search

Service Search allows your phone to search for a better system to use while roaming or in an area of no service.

You can initiate a service search at any time. However, the best situation to conduct a service search is when your phone displays ROAMING or NO SERVICE.

To activate Service Search

Press Menu 6 6

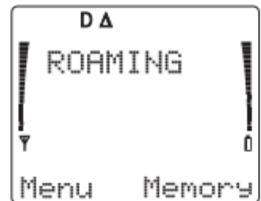
Your phone will display SEARCHING FOR SERVICE. If a better system is found, your phone will return to its idle state with the appropriate roaming indicator (see below).

If a better system is not found, your phone will search again to find the best possible system in your area.

Roaming Indicators

If your phone is roaming in a preferred system, it will display ROAMING.

If roaming in a non-preferred system, your phone will display ROAMING along with a flashing Δ indicator.



See your service provider for more details on roaming.

Menu 6 7, Network Feature Setting

Call Forwarding, Call Waiting, Selective Call Acceptance, and Send Own Number are services available through your service provider or dealer. When you subscribe to any of these services, your service provider or dealer gives you a separate code (known as a “feature code”) to activate and deactivate each service.

Menu 6 7 lets you store all the feature codes you use in your phone. Once the feature code is stored in your phone, the service appears as a menu item. You can then use the menu to activate and deactivate CALL FORWARDING, CALL WAITING, SELECTIVE CALL ACCEPTANCE, and SEND OWN NUMBER.

To store codes

- 1) Press **Menu 6 7**
- 2) At **Feature Code:**, enter the code you want to store in your phone (e.g. *74), then **OK**
- 3) **▼** to the service that the code applies to, then **Select**
- 4) **▼** to suboption, then **OK** (Repeat step as required, based on number of suboptions)

To remove items from the network services menu

Follow same steps as in “To store codes”, except press **OK** at **Feature code:** (without entering a code).

Note: Any feature codes that are received from your service provider are unrelated to your phone’s security code.

Menu 7, Phone Number

This feature allows you to use your phone to view your own mobile phone number.

When you want to view your own number, simply press **Menu 7** and it will appear. **Select** and **Quit** will also appear at the bottom of the display; simply press either one to return to the main screen.

Menu 8, Number Editor

You can edit the digits of a phone number that’s currently displayed. This helps in many instances, especially when you want to call a number already stored, but must first include 1 plus the area code because you’re out of your home area.

To edit a stored phone number

- 1) Recall a stored number
- 2) Press **Menu 8**
- 3) Edit phone number as needed (using **▼** or **▲** to move the cursor back and forth) and press **OK**

- 4) Press **TALK** to dial the edited number, or press **Memory** then **Store** to store it

If you wish to store the edited phone number, the message **REPLACE?** followed by the associated name will display (e.g. **REPLACE? MOM**). Simply press **OK**.

Note: This feature will deactivate if no keys are pressed within ten seconds.

Menu 9, Alert Options

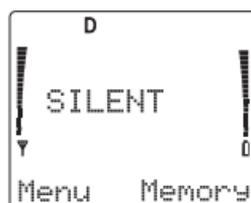
This feature allows you to choose whether your phone rings, beeps once, or vibrates when you receive an incoming call. You can also choose to have your phone remain silent when someone calls you.

Note: You'll need an optional vibrating battery (BBT-1XV) when selecting vibrating options. See your dealer for details.

With **Silent**, your phone only flashes its lights and displays **CALL**, along with the caller's number if Caller ID is active.

See "Menu 3 1, Ringing Volume" on page 25 and "Menu 3 2, Ringing Tone" on page 25 to select ringing tones and volumes.

When **Beep once**, **Vibrate** or **Silent** has been chosen, your phone displays **SILENT**. Call-related tones like message received or voice mail indication beeps become shorter with one of the above options selected.



When your phone is connected to a HF desktop charger, HF car kit, or headset, the alert option can be set separately for each of these accessories.

Menu 10, Activate Keyguard

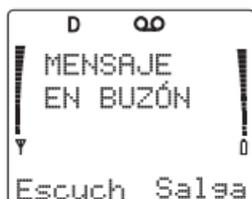
Please see "Keyguard" on page 11 for information on this feature.

7. Messages & Pages

Voice Mail Notification, Paging, and Text Messaging are all network services. Please check with your service provider for the availability of these features.

Voice Messages

When you receive a voice message, your phone beeps, lights up the voice message indicator, and displays **VOICE MESSAGE**. The display shows the number of messages if there are more than one.



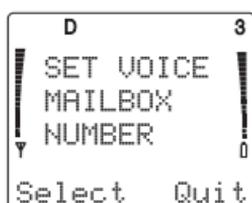
To listen to your voice messages, simply press **Listen**. If you prefer to listen to them later, press **Quit**. Later, when you want to play your messages, press and hold **1** or press **1**, then **TALK**, or you can use **Menu 2 1**.

Note: To receive messages from your voice mailbox, your voice mailbox number must first be stored in your phone.

When you receive a voice message or a page, the display text may vary due to short message services used by different service providers.

To store your voice mailbox number

Use **Menu 2 3** to store your voice mailbox number. Your phone will need this information so it can access messages stored in your voice mailbox. Your voice mailbox number may be up to 30 digits long.



The voice mailbox may be provided by the network (the service provider gives you the number to call) or you may use the number of your own answering machine or service (however, your phone will not notify you of any messages received).

Note: Any voice mail access number stored into your phone may be overwritten by the network if you subscribe to voice mail services. Contact your service provider for more details.

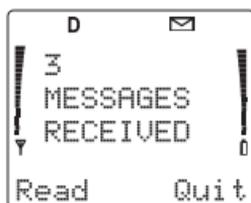
Text Messages and Pages

When the text message network service is available and you've subscribed to it, your phone can receive and store text messages and pages. Contact your service provider for details on how to send text messages to your phone.

The maximum length of a text message is 160 characters. Your phone has space for up to 30 text messages, depending on the length of each message. The network may have its own default message that is displayed when your phone is in the network coverage area. This does not prevent the use of your phone in any way.

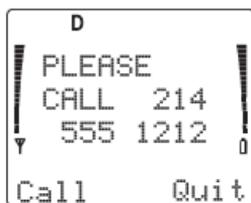
Receiving text messages and pages

When you receive a text message and there's enough space left in the message memory, MESSAGE RECEIVED and the text message indicator are displayed, and a series of short tones are heard.



See "The Display" at the beginning of this owner's manual for a description of the Text Message indicator.

If someone has paged you, your phone displays PLEASE CALL followed by the phone number.



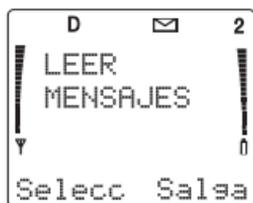
Note: Some service providers may send a text message when notifying you of any pages received.

To respond to your most recent page

With PLEASE CALL on display, press Call OR press **TALK**

To read text messages & pages any time

- 1) Press Menu 2 2
- 2) With message header on screen, press Read
- 3) Press ▼ to read the message



The messages are shown in the order that they were received or stored. New messages are shown first, in their order of priority, then old messages, in their chronological order.

LOCKED indicates that you've locked the message or page. It will not be overwritten even if there's no space remaining in your phone's memory and there's an attempt to deliver a new message to your phone. New messages or pages will override old unlocked messages or pages when there is no space remaining in your phone for new text messages.

Reading options for text messages

With message on screen

- 1) Press Option
- 2) Press ▼ to the option you want (see below)
- 3) Press OK

Read next shows the next message.

Erase deletes the current message from memory.

Lock/Unlock allows you to lock and unlock messages. When a new message arrives and the message memory is full, the new message automatically overrides old messages unless they are locked.

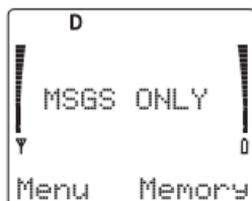
Call back displays the first number from the current message and calls that number. You can also just press **TALK** while the message is displayed.

To activate Messages Only Mode

This feature is great to use when you want to receive calls, but don't want your phone to ring. So when someone calls, your phone will receive the call as it normally does, except your phone will remain silent.

Simply press Menu # to quickly activate Messages Only Mode. Or, you can use Menu 3 8 to set it to On.

Once this feature is activated, your phone will display MSGS ONLY, unless someone calls.



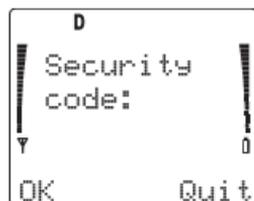
The default setting is Off.

Note: Check with your service provider to see if they support this feature. If not, you may not receive any messages while you are roaming, even when this feature is activated.

8. Security Features

Security Code

Your phone will prompt you for a five-digit security code to enter certain features. The factory default code is 12345, and that is what your phone will accept until it is changed.



If your service provider hasn't already changed your security code, it's recommended you have it changed immediately. See "To change your security code (Menu 5 3)" on page 45.

*Note: When entering your security code, ***** will appear on the display to keep others from viewing your code.*

If you make a mistake entering the code, Erase the incorrect digit by pressing (CLR) or press and hold (CLR) to exit the current function.

What if you enter the wrong security code?

You can still enter it again. But if you enter the wrong security code five times in a row, your phone will activate a security timer.

If this happens, your phone will not accept a security code for about five minutes, even if you enter the correct one. You can still use your phone, but any attempts to enter the security code will reset the timer.

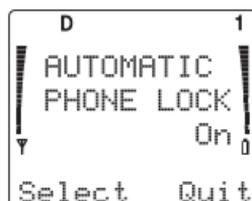
Once the timer has elapsed, you may re-enter the correct security code to access security code protected features.

Note: Your phone must remain on during the five minute security timer or the timer will reset for another five minutes.

Menu 5 1, Automatic Phone Lock

When this feature is activated, your phone will be locked every time you switch on your phone. You must enter a four-digit lock code to unlock your phone. Without entering your lock code, you'll be denied access to almost every memory and menu function.

When your phone is locked, your phone will only receive incoming calls and make outgoing calls to the numbers stored in memory locations 2, 3, and 4.



If your phone is locked and you switch your phone off and back on again, you must enter the lock code.

Note: When your phone is locked, calls may be possible to the emergency number programmed into your phone (e.g. 911 or other official emergency number) including calls with Emergency Key 9.

To enter the lock code

At Enter lock code:, enter the lock code and press OK.

Note: Your security code can be entered in place of the lock code when you are asked to enter the lock code.

To answer a call with Auto Lock on

Press **TALK**

Can you make calls with Auto Lock on?

Yes. You can call numbers that are stored in memory locations 2, 3, and 4, which are unlocked. To make full use of this feature, you may wish to store your most frequently-dialed numbers in these locations.

To call unlocked memory locations while Auto Lock is on

There are four different ways you can do this:

1. Press and hold (CLR) to go to the start screen. Press ▼ or ▲ to desired unlocked location, then press (TALK).
2. Enter number as it is stored and press (TALK).
3. Press desired unlocked location (either 2, 3, or 4) and press (TALK).
4. Press and hold the desired unlocked location.

To turn Auto Lock off

Use Menu 5 1 and your lock code

To change your lock code (Menu 5 2)

You can change your lock code with your phone's menu. It's recommended that you change your code immediately because the default lock code (1234) appears in this owner's manual. In a lock code, only characters 0 to 9, * and # are accepted.

Changing the lock code is simple. Just press Menu 5 2 and follow the prompts to do this. Make sure you have your security code handy. You'll need it to change the lock code.

Note: Avoid entering access codes similar to emergency numbers to prevent accidental emergency calls.

To change your security code (Menu 5 3)

The default security code for your phone is 12345. It's recommended that you change this code immediately. Just press Menu 5 3 and follow the prompts to do this, and make sure you write the new code down and store it away from your phone.

Menu 5 4, Restrict Calls

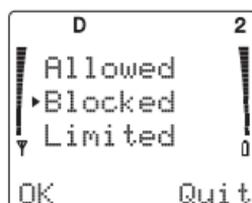
This feature allows you to restrict outgoing calls from your phone. You can select the level of restrictions through a series of menu choices.

Menu 5 4 1, Restrict outgoing calls

Allowed means that all calls can be made as usual.

Blocked means that no calls can be made.

Limited means that calls can be made only to phone numbers stored in certain memory locations.



When restricting outgoing calls by selecting Limited, you are prompted for an Allow from location: and To location: value. For example, at Allow from location: enter 1 and To location: enter 15, to allow only calls to the numbers stored in locations 1-15.

Note: When calls are restricted, calls may be possible to the emergency number programmed into your phone (e.g. 911 or other official emergency numbers). However, Emergency Key 9 may not operate depending on the type of restriction you choose.

The default setting for this feature is Allowed.

Menu 5 4 2, Restrict international calls

Allowed means you can make international calls and Blocked means you cannot.

The default setting for this feature is Allowed.

Menu 5 5, Hide Memory

This feature will prevent your phone from displaying the phone number stored in your personal directory.

To hide numbers in memory

Use Menu 5 5. You'll need your security code to do this.

To hide only one location, enter the location number at both the Hide from location: and To location: prompts.

To hide a series of locations, such as locations 10-15, enter the first location, for example 10, at Hide from location:. and the last location, for example 15, at To location:.

9. Temporary Lists & Call Timers

Your phone automatically stores the last ten numbers you've dialed, numbers of the last ten calls you've answered, and the numbers of the last ten calls you missed. It also gives you ten temporary storage spaces in a "notepad."

Note: Your phone displays the phone numbers of received and missed calls only if you have subscribed to Caller ID and the wireless system is able to identify the caller.

Menu 01 1, Dialed Numbers

Press and hold **(CLR)** to go to the start screen,

Press **(TALK)**, then quickly press **▼** or **▲** to scroll the list

If you want to call any of the other numbers in the list, press **(TALK)** while that number is displayed.

To call the first number that appears on your screen, simply wait a few seconds and your phone will dial it automatically.

The top right corner of the display shows the location number of the last dialed number (L0 - L9). **Menu 01 1** also accesses the Dialed Numbers list.

Menu 01 2, Answered Calls

Press and hold **(CLR)** to go to the start screen,

Press ***** then **▼** or **▲** to scroll the list.

This shows the calling phone numbers of the ten most recent calls you've answered. If the number listed is stored in your personal directory, press **(ABC)** to view associated names. Also, you can press **Menu 01 2** to access this list.

Menu 01 3, Missed Calls

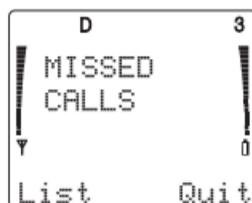
When you miss a phone call, your phone will display **1 MISSED CALL**. Simply press **List** to view the number.

If you wish to view the number later, press **Quit**.

You can view the number later by using the following step.

Press and hold **(CLR)** to go to the start screen,

Quickly press * twice (a + will appear on the display), then press ▼ or ▲ to scroll the list



This shows you the calling phone numbers of the 10 most recent calls you've missed. **Menu 01 3** also accesses the Missed Calls list.

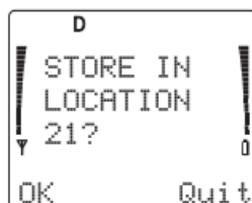
When the **FORWARD IF NOT ANSWERED** option in the Call Forwarding feature is activated, your phone treats the forwarded calls as missed calls.

Notepad

Use the Notepad to store names and numbers that you don't want stored in your personal directory. The Notepad holds up to 10 names and numbers.

To store numbers and names in notepad

- 1) Enter name and number as you normally would, but at **STORE IN LOCATION**, press #
- 2) Press **OK**



See *"Your Personal Directory"* on page 17 for details on storing numbers.

To see numbers and names in notepad

Press and hold **(CLR)** to go to the start screen,

Press #, then ▼ or ▲.

The top right corner of the display shows the location number of the notepad (00 - 09).

To clear temporary lists and notepad

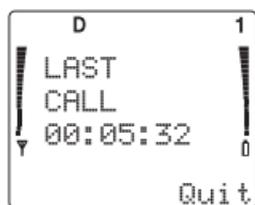
Press Menu 01 4.

This clears Dialed Numbers, Answered Calls, Missed Calls, and the notepad. You cannot undo this operation, so be careful!

Menu 01 7, Call Timers

This feature is for those of you who want to keep track of calls for billing purposes.

Use Menu 01 7 and press ▼ repeatedly to show durations of LAST CALL, ALL CALLS, HOME AREA CALLS, ROAMING CALLS & LIFE TIMER.



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

To clear Call Timers

Use Menu 01 7 6 to clear all call timers for the currently-selected NAM, except for the Life Timer. Note that the Life Timer, which is a running total of all calls made and received with your phone, cannot be reset.

10. Touch Tones

Your phone can generate various sounds, called Touch Tones, when the keys are pressed.

Touch Tones can be used for many automated, over-the-phone services such as checking bank balances, airline arrival and departure times, and using voice mailbox options. Touch Tones can be sent only when a call is active.

What is DTMF?

Touch Tones are also known as “DTMF”, which means Dual Tone Multi-Frequency, and they are generated either manually or automatically.

Note: Individual Touch Tones can be sent manually only if Menu 4 3 is set to On.

Touch Tone Settings

Menu 4 3, Manual DTMF Tones

This setting determines how long touch tones are produced as you press the keys on the keypad.

`Continuous` means the tone sounds for as long as you press and hold the key.

`Fixed` sets the tone length to .1 seconds, regardless of how long you press the key.

`Off` turns the tones off, and no tones will be sent when you press the keys.

The default setting for this feature is `Fixed`.

Menu 4 4, Auto DTMF Length

This feature determines the length of each Touch Tone when they are sent automatically.

`Short` sets the tone length to .1 seconds. `Long` sets the tone length to .5 seconds.

The default setting is `Short`.

Touch Tone Strings

Touch Tone strings can be used for sending and receiving information with your phone. For example, you can store your office voice mailbox number, along with your password for easy access to your messages.

To store Touch Tone strings

Store Touch Tone strings the same way you store phone numbers.

You can store a whole digit sequence in a memory location and send it as Touch Tones for frequently-used strings of numbers.

These number strings can also be linked with other stored phone numbers. Read on for more information on linking strings with stored numbers.

To send a Touch Tone string

During a call, at the start screen (make sure Menu 4 3 is not set to Off)

- 1) Dial or recall from memory the string you want to send
- 2) Press Menu, then **TALK**

Special Characters

Pressing *** creates a “p” (pause) when you are storing numbers. When the number is dialed, the digits stored to the right of the “p” are automatically sent as touch tones after a 2.5 second pause.

Pressing **** creates a “w” (wait) when you are storing numbers. The “w” makes the phone wait for you to press the DTMF soft key, then it sends the digits stored to the right of the “w” as touch tones.

You can add as many “p” and “w” characters as you need in a single number sequence.

To store Touch Tone strings with a phone number

- 1) Enter the phone number (e.g. office voice mailbox)
- 2) Press *** (p) or **** (w)
- 3) Enter the Touch Tone string (e.g. voice mailbox password)
- 4) Store the number as you normally would

When you dial this number, your phone first dials the phone number, then waits (because of the “w” character) for you to press DTMF (which will display as a soft key). Your phone then sends your password.

If you include a “p” character instead of a “w”, your phone pauses for 2.5 seconds, then automatically sends your password as Touch Tones.

To link a stored phone number to Touch Tone strings in another memory location

Use this if the phone number and DTMF digits do not fit in one storage location. This feature links the phone number to the memory location storing the DTMF string.

- 1) Enter the phone number
- 2) Press ** (+)
- 3) Enter memory location storing the DTMF string
- 4) Store the number as you normally would

When you recall this number sequence from memory and press **TALK**, your phone dials the phone number, displays digits stored in the memory location after the “+”, then sends them as Touch Tones when you press DTMF.

*Note: Your phone expects a memory location after the “+” character. If one is not stored, you will need to enter a location number at the prompt. Then press **OK** to send the contents of that memory location as Touch Tones.*

11. Accessories

In addition to the accessories that were included in your phone's sales package, you may also find a separate full color accessories brochure. You can select from a wide range of Nokia accessories to accommodate your specific communication needs.

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



A few practical rules for accessory operation

Keep all accessories out of the 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 complex car accessories must be made by qualified personnel only.

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

Batteries

The following battery options are available for your phone. Charging times in the table are approximate, using either the Rapid Travel Charger (ACH-4U) or the Rapid Cigarette Lighter Charger (LCH-2). Talk times are also approximate.

(BBH-1S) 600 mAh NiMH Slim Battery

(BBT-1XV) 600 mAh NiMH Vibrating Battery

(BBH-1SF) 800 mAh NiMH Extended Slim Battery

(BBH-2H) 1100 mAh NiCd Ultra Extended Battery

(BBH-1H) 1700 mAh NiMH Ultra Extended Battery

Also, see “Your Phone’s Battery” on page 3 and
“Important battery information” on page 6.

Approximate battery operation times

Battery	Charge Time	Talk Time	Standby Time
<i>BBH-1S Slim 600 mAh NiMH</i>	<i>60 min.</i>	<i>Up to 1 hr. 30 min.</i>	<i>Up to 40 hrs.</i>
<i>BBT-1XV Vibrating 600 mAh NiMH</i>	<i>60 min.</i>	<i>Up to 1 hr. 30 min.</i>	<i>Up to 40 hrs.</i>
<i>BBH-1SF Extended Slim 800 mAh NiMH</i>	<i>60 min.</i>	<i>Up to 2 hrs.</i>	<i>Up to 53 hrs.</i>
<i>BBH-2H Ultra Extended 1100 mAh NiCd</i>	<i>120 min.</i>	<i>Up to 2 hrs 45 min.</i>	<i>Up to 73 hrs.</i>
<i>BBH-1H Ultra Extended 1700 mAh NiMH</i>	<i>180 min.</i>	<i>Up to 4 hrs 15 min.</i>	<i>Up to 110 hrs.</i>

Note: The times shown are approximate. Battery operation times vary according to signal conditions, network parameters set by the service provider, and how you use the batteries.



**CONTAINS: NICKEL METAL HYDRIDE
AND/OR NICKEL CADMIUM BATTERY.
MUST BE RECYCLED OR DISPOSED OF
PROPERLY. MUST NOT BE DISPOSED
OF IN MUNICIPAL WASTE.**

Chargers

It is recommended that you allow your battery to fully discharge before you recharge it. When a charger is not in use, disconnect it from the power source.

Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its life. If left unused, a fully charged battery will discharge itself over time.

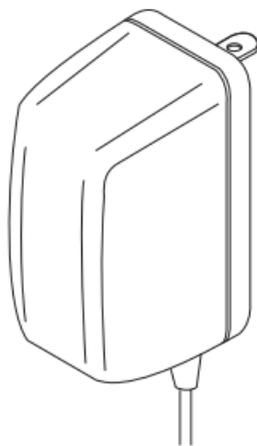
Also, see “When should you charge?” on page 4.

Rapid Travel Charger (ACH-4U)

This light and compact AC charger can be used with all battery options mentioned in this manual.

To use the Rapid Travel Charger, plug it into a wall outlet and connect the lead from the charger to the base of your phone.

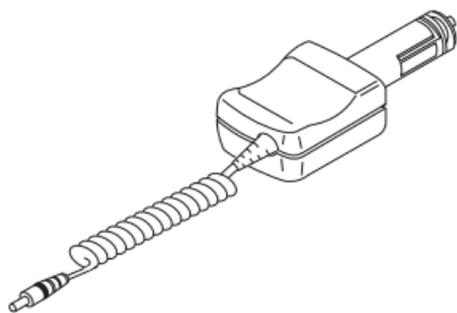
This charger can also be used together with the Light Desktop Charging Stand (CHH-2L) and the Compact Desktop Charging Stand (CHH-2).



Rapid Cigarette Lighter Charger (LCH-2)

You can charge your phone's battery from your vehicle's battery by using the Rapid Cigarette Lighter Charger (LCH-2). Calls are possible during charging.

If the charger is connected to your phone, a red light indicates that your phone is



charging. A green light means your phone is either finished charging or it is in trickle charge. When the charger is not connected to your phone, the green light means it is ready for charging. The battery charging times are the same as those for the Rapid Travel Charger (ACH-4U).

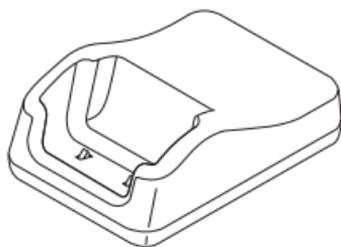
The input voltage range is from 10 to 30V DC, negative grounding. Avoid prolonged charging with the Rapid Cigarette Lighter Charger (LCH-2) when the car engine is not running; this may cause the battery of your car to drain. Note also that in some cars the cigarette lighter plug is not provided with electricity if the ignition is not switched on.

Fuse Replacement

The Rapid Cigarette Lighter Charger contains a protective fuse. The fuse is located in the charger tip. If the charger does not work, the fuse may be blown, in which case replace it with a 3 amp. 250 volt fuse. Never use a fuse with a higher rating.

Light Desktop Charging Stand (CHH-2L)

The Light Desktop Charging Stand (CHH-2L) offers support for the phone during charging. Used together with the Rapid Travel Charger (ACH-4U), this drop-in stand is an economical choice when you need your phone close at hand.



Charging is indicated by the scrolling battery bars on the right side of the phone's display. Charging is finished when the scrolling stops.

12. Care & Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to 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 small children's reach.

Keep it dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.

Do not use or store it in dusty, dirty areas as its moving parts can be damaged.

Do not store it in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

Do not store it in cold areas. When the phone warms up (to its normal operating temperature), moisture can form inside the phone, which may damage the phone's electronic circuit boards.

Do not attempt to open it. Non-expert handling of the device may damage it.

Do not drop, knock or shake it. Rough handling can break internal circuit boards.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

Do not paint it. Paint can clog the device's moving parts and prevent proper operation.

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.

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

13. For Your Safety

Traffic Safety

Do not use a hand-held phone while driving a vehicle. If using a hand-held phone, park the vehicle before conversing.

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

The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Remember, road safety always comes first!

Operating Environment

Remember to follow any special regulations in force and always switch off your phone whenever its use is forbidden, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 6 inches (20 cm.) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

Should always keep the phone more than 6 inches (20 cm) from their pacemaker when the phone is switched on;

Should not carry the phone in a breast pocket;

Should use the ear opposite the pacemaker to minimize the potential for interference.

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

Hearing Aids

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

Other Medical Devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (e.g. electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Potentially Explosive Atmospheres

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

Users are advised to switch off the phone while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats; chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Vehicles

Only qualified personnel should install the phone in a vehicle, or service the phone. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

Do not store or carry flammable liquids, gases or explosive materials in the same compartment as a wireless phone or any of its parts or accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Switch off your phone before boarding an aircraft. The use of wireless phones in an aircraft may be dangerous to the operation of the aircraft, may disrupt the wireless network, and may be illegal.

Failure to observe these instructions may lead to the suspension or denial of wireless telephone services to the offender, or legal action, or both.

Emergency Calls

IMPORTANT!

This phone, like any wireless phone, operates by using radio signals, wireless and landline networks, as well as user-programmed functions which cannot guarantee connection in all conditions. Therefore, you should never rely solely upon any wireless phone for essential communications (e.g. medical emergencies).

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

Making an Emergency Call

- 1) If the phone is not on, switch it on by pressing and holding the **(PWR)** key
- 2) Press and hold **(CLR)** to go to the start screen
- 3) Enter the emergency number for your present location (e.g., 911 or another official emergency number). Emergency numbers vary by location.
- 4) Press **(TALK)**

If certain features are in use (e.g., Keyguard, Restrict calls, etc.), you may first need to turn these off before you can make an emergency call. Please read this document and your local service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your wireless phone may be the only means of communication at the scene of an accident. Do not end 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 also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with 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)*.*

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.*

NOKIA One-Year Limited Warranty

Nokia Mobile Phones ("NMP") warrants that this wireless phone ("Product") is free from defects in material and workmanship, according to the following terms and conditions:

- 1. The limited warranty for the Product extends for ONE (1) year beginning on the date of purchase of the Product.*
- 2. The limited warranty extends only to the original consumer purchaser ("Consumer") of the Product 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. 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 external housing and cosmetic parts shall be free of defects at the time of shipment and, therefore, shall not be covered under these limited warranty terms.*
- 5. Upon request from NMP, the Consumer must provide information to reasonably prove the date of purchase.*

6. The Consumer shall bear the cost of shipping the Product to the Customer Service Department of NMP. NMP shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

7. The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

a) The Product has been subject to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of NMP, including damage caused by shipping and blown fuses.

b) The Customer Service Department at NMP was not notified by Consumer of the alleged defect or malfunction of the Product during the applicable limited warranty period.

c) The Product serial number plate or the accessory date code has been removed, defaced, or altered.

d) The defect or damage was caused by the defective function of the wireless system, or by inadequate signal reception by the external antenna.

8. If a problem develops during the limited warranty period, the Consumer should take the following step-by-step procedure:

a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.

b) If "a" is not convenient the Consumer may contact the Customer Service Department at NMP, at the phone number listed on the bottom of the next page for further instructions.

c) The Consumer shall ship the Product prepaid and insured. 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 shall be responsible for expenses related to reinstallation of the Product.

e) If the Product is returned to the Customer Service Department at NMP during the limited warranty period, but the problem with the Product cannot be fixed 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 the Customer Service

Department at NMP after the expiration of the warranty period, NMP's normal service policies shall apply and the Consumer will be invoiced for all shipping charges.

9. The Product consists of newly assembled equipment that may contain used components which have been reprocessed to allow machine compliance with Product performance and reliability specifications.

10. ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING WRITTEN WARRANTY, OTHERWISE, THE FOREGOING WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NMP SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR A LOSS OF ANTICIPATED BENEFITS OR PROFITS, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM THE BREACH OF THE WARRANTY EVEN IF NMP KNEW OF THE LIKELIHOOD OF SUCH DAMAGES.

11. Some states do not allow limitation of how long an implied warranty lasts, so the above limitation may not apply to you (the Consumer). Some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusions may not apply to you (the Consumer). This limited warranty gives you specific legal rights and you may also have other rights which vary from state to state.

12. NMP neither assumes nor authorizes any authorized service center or any person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty.

13. Questions concerning this limited warranty may be directed to the Customer Service Department at Nokia, 6200 Courtney Campbell Causeway, Suite 900, Tampa, FL 33607. Telephone (813) 288-3800 or 1-888-665-4228, Facsimile: (813) 287-6612.

14. The limited warranty period for Nokia Product Corp. supplied attachments and accessories are specifically defined within their own warranty cards and packaging.

14. Technical Data

PCS System	CDMA
Weight	8.3 oz (235g) with 600mAh NiMH Slim Battery 11.1 oz (314g) with 1700mAh NiMH Ultra Extended Battery
Frequency Range	1850.000 - 1909.950 MHz (TX) 1930.000 - 1989.950 MHz (RX)
Transmitter Output Power	10 μ W to 200mW
Battery Voltage	6 V nominal
Charging current	750mA typical
Operating Temperature	-20°C to + 55°C (-4°F to + 140°F)
Number of Channels	1150
Number of NAMs	1
Memory Locations	100
Memory Capacity	Alpha: 16 digits per location Numeric: 16 digits per location + 30 digits in 8 locations.

USA

NOKIA MOBILE PHONES – 6200 Courtney Campbell Causeway,
Suite 900, Tampa, FL 33607

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

CANADA

NOKIA PRODUCTS LTD. – 575 Westney Rd. South,
Ajax, Ontario L1S 4N7. Tel: (905) 427-6654

The information contained in this phone was written for single-mode phone NHP-4. The right to make changes and improvements to any of the products described in this guide without prior notice is reserved.

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