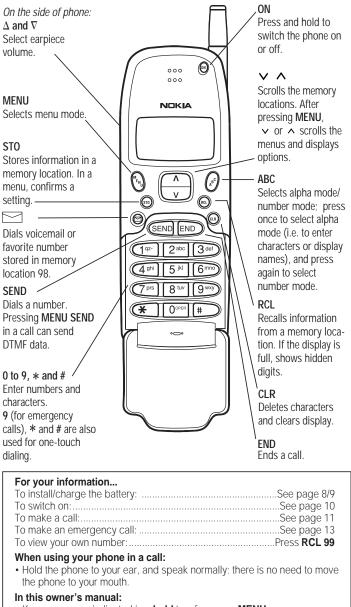


DESCRIPTION OF KEYS

Use the phone keys as follows:



- Keypresses are indicated in a **bold** typeface, e.g. **MENU**.
- Display messages are indicated in an *italic* typeface, e.g. CALL.

9351288 NOKIA 239 english

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Adjust Volume (during a call) Clear a digit Clear display Ending a Call Last number redial Making a call Press to Δ increase and ∇ to decrease the volume Press the **CLR** key Press and hold the **CLR** key Press the **END** key Ensure the display is clear and press **SEND** Key in the area code and phone number and press the **SEND** key Press any key except **ON** or the volume keys Press and hold the **ON** key

Receiving a call

Switching on/off

Memory Functions

9 Key Emergency Call Displaying your own number	Press and hold the 9 key Press RCL 99
One-touch dialing	Simply press any one of these keys to dial the associated number (#, ∗, 9, ⊡)
Search for a name	Press ABC and then \vee or \wedge
Search for a number	Press v or A (with a clear display)
Speed dialing	Key in the location number and press the $\ensuremath{\textbf{SEND}}$ key

The Menu Facility

Enter function Enter menu facility Exit menu facility	Press the STO key Press the MENU key Press the CLR key
Menu shortcut	Press the MENU key and then the function shortcut number (listed on the flip-side of this card)
Scroll	Press ∧ to scroll forward and ∨ to scroll backward
Select option	Press the STO key

LIST OF MENU FUNCTIONS

Menu Name	Shortcut Keys	Description		
LOCK PHONE	MENU 0 (L)	Locks/unlocks the phone.		
SYSTEM SELECT	MENU 1	Selects roaming mode (system feature).		
RINGING TYPE	MENU 2	Selects the ringing tone type.		
CALL TIMERS	MENU 3 (S)	Displays length of calls. Resets the timers.		
LIGHTS CONTROL	MENU 4	Selects operation of display and keypad lights.		
KEYPAD TONES	MENU 5	Switches keypad tones on/off.		
RINGING VOLUME	MENU 6	Selects volume of ringing tone.		
NAM SELECT	MENU 7	Displays and selects cellular number/network.		
AUTO ANSWER	MENU 8	Sets automatic answer on/off.		
ACCESSORY MENU	MENU 9	Controls accessories connected to the phone.		
CLEAR LAST CALL	MENU 1 0	Sets the last-called numbers to be cleared or retained when phone is switched off.		
CHANGE LOCK CODE	MENU 1 1 (S)	Allows you to change lock code.		
DATA MODE	MENU 1 2	Selects data mode (in a call).		
EMERGENCY 9 KEY	MENU 1 3 (L)	Sets 9 key on/off for one-touch dialing of emergency calls.		
CALL BARRING	MENU 1 4 (S)	Sets call restrictions.		
MEMORY LOCK	MENU 1 5 (S)	Sets memory access restrictions.		
ACTIVATE KEYGUARD	MENU ABC or MENU 1 6	Locks/unlocks the keypad.		
SEND DTMF	MENU SEND or MENU 1 7	Sends DTMF tones (in a call).		
SID SCREEN	MENU 1 8 (L)	Selects SID to on/off.		

(L) = requires entry of 4-digit lock code (default is 1234).

(S) = requires entry of 5-digit security code (default is 12345).

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IMPORTANT SAFETY INFORMATION

TRAFFIC SAFETY

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

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

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

Remember, road safety always comes first!

OPERATING ENVIRONMENT

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

Operation of any radio transmitting equipment, including cellular telephones, may interfere with the functionality of inadequately-protected medical devices. Consult a physician or the manufacturer of the medical device if you have any questions. Other electronic equipment may also be subject to interference.

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.

Users are advised to switch off the phone when 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.

Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the phone, its parts, or accessories. Only qualified personnel should install or service the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Electronic fuel-injection systems, electronic anti-skid braking systems, electronic cruise-control systems and other electronic systems can malfunction due to the lack of protection from radio signals. Check regularly that all cellular phone equipment in your vehicle is mounted securely and operating properly.

Switch off your cellular telephone when in an aircraft. The use of cellular telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the cellular network, and is illegal.

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

EMERGENCY CALLS

IMPORTANT!

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

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

Locking the phone or restricting calls does not prevent making emergency calls with the phone. To make an emergency call, if the phone is not on, switch it on. If the **ALPHA** indicator is shown on the display, clear it by pressing the **ABC** key. Press and hold the **CLR** key for several seconds to ready the phone for calls. Key in the emergency number for your present location (e.g. 911, 112 or other official emergency number). Emergency numbers vary by location. Press the **SEND** key.

If Keyguard is in use, you may have to deactivate it (press **MENU ABC**) before you can make an emergency call. Consult this document and your local cellular service provider.

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

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your cellular 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.

USING THIS GUIDE

The cellular phone described in this guide is approved for use on the AMPS network. The AMPS manual activation commands for various services are not presented in this guide (e.g. using ***** and **#** for activating or deactivating services). The phone nevertheless is capable of handling commands given in that form. For these commands, please consult with your service providers.

A number of features included in this guide are called Network Services. They are special services provided by cellular service providers. Before you can take advantage of any of these Network Services, you must subscribe to the service(s) you want from your home service provider. You can then activate these features as described in this guide.

The operation of the phone requires successive key depressions; two keys are never to be pressed simultaneously.

WARRANTY NOTE

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

FCC/INDUSTRY CANADA NOTICE

Your phone may cause TV or radio interference (e.g. when using telephone in close proximity of 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.

DISPLAY INDICATORS			
		() ()	
		ALPHA MENU 12 - 3	
	0 + •		
	ON ROAN	A IN USE NO SVC	
	34	00	
0	AB Indicator	Shows which network is in use: A – System A only B – System B only A B – Both systems <i>Blank</i> – Home area only	
2	Signal Indicator	Shows approximate received signal strength.	
3	ON Indicator	Shows that phone is switched on.	
4	ROAM Indicator	Shows which system the phone is using: <i>On</i> – home system in a non- home area. <i>Flashing</i> – non-home system. <i>Off</i> – home system in the home area.	
5	IN USE Indicator	Shows that a call is in progress.	
6	NO SVC Indicator	Shows that cellular service is not available. If the SID List is Active, the "NO" will flash.	
7	Battery Indicator	Shows approximate capacity remaining. <i>Scrolls</i> when charging is in progress. <i>Flashes</i> to show that battery is too hot or cold and will not be charged.	

If charging while phone is switched off, the indicator bars disappear, but **B** remains on.



Shows menu or memory location selected.

Ø MENU Indicator

tor Shows that menu mode has been selected.

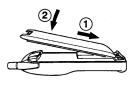
ALPHA Indicator

or Shows that alpha mode has been selected; letters can be entered, and names can be displayed.

GETTING STARTED

INSTALLING THE BATTERY

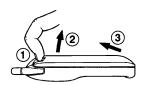
Place the base of the battery into the lower part of the phone, taking care to line up the screw in the lower right corner with the indent in the battery plastic.



2 Push the top of the battery toward the upper part of the phone, until the catch clicks.

To remove battery, when required:

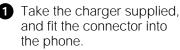
- 1 Press and hold catch.
- 2 Pull top of battery away from phone.
- 3 Detach battery from the phone.



CHARGING THE BATTERY



TO ACHIEVE FULL BATTERY CAPACITY, NEW BATTERIES MUST BE CHARGED <u>WITH THE PHONE OFF</u> FOR AT LEAST 24 HOURS BEFORE INITIAL USE.





2 Connect the charger to a standard AC outlet (or cigarette lighter receptacle).





3 The phone will beep to indicate the charger has been connected properly.

4 For fastest charging, make sure the phone is off.

5 Leave the battery on charge for 24 hours before initial use. After the first use, the charging times depend on the type of battery fitted, and charger used; approximate times are shown below:

Charger Type	*BTH-8S	Battery BTH-8SM		BTH-8HM
Standard Travel Charger (ACH-3U)	90 mins	110 mins	5 hrs	5.5 hrs
Rapid Travel 40 mins 60 mins 70 mins 100 mins Charger (ACH-4U) or Rapid Cigarette Lighter Charger (LCH-2) *Subject to availability.				100 mins
6 When charging is complete, disconnect the				

When charging is complete, disconnect the charger from the outlet and from the phone. For further details, please refer to 'Charging Indications' (below), and 'Battery Information' (page 48).

Charging indications:

- When the phone is switched off, and the charger is connected, only the 'B' part of the battery indicator will be visible.
- When the phone is switched on, and charging is in progress, the bars on the battery charge indicator will 'scroll'. When the battery is fully charged, the scrolling will stop and all bars will be on (steady).



SWITCHING ON



1 If your phone has an extendable antenna, extend the antenna fully.

2 Press and hold the **ON** key.

The phone will carry out a short selftest, briefly displaying the 'wake-up' message. (This message is programmed by your dealer, but you may change it if you wish; refer to 'Changing the wake-up message', page 27, for further details).



When the **ON** indicator appears, the phone is ready for use.

If the NO SVC indicator remains on, then you may be outside the cellular service area, and will not be able to make or receive calls.

Remember, to make or receive any calls, your phone must be switched on and in service.

If you are using the SID function (refer to 'SID Screen (Menu 18)', page 46, for details):

When SID is switched on, and specific carriers are not available in your area, then the NO part of the NO SVC indicator may flash; in this instance you may be able to make emergency calls, but will not be able to make or receive any calls.

As with any other radio-transmitting devices, avoid prolonged contact with the antenna when the phone is switched on.

SWITCHING OFF

Press and hold the ON key.

The display will become blank.

If the charger is connected, the **B** indicator will remain on, and charging will continue.

NOTE: Switch off the phone before removing the battery.

BASIC FUNCTIONS

RECEIVING A CALL

Press any key except **ON** or the volume keys.

An incoming call is indicated by a ringing tone, and the CALL message flashing on the display.

If the SILENT SERVICE option (Menu 6) has been selected there will be no ringing tone; the keypad and display lights will flash instead, and only a short beep will be heard (refer to 'Ringing volume (Menu 6)', page 37).

If you do not answer a call, the CALL message will remain on the display (indicating a missed call); to clear the display, press any key.

'Any-key answering' facility: Any key (except ON or the volume keys) may be pressed to answer a call (except when 'keyguard' is active). If 'keyguard' is active, you must press the SEND key to answer the call. If you receive a call while entering a number, the call will be answered on the first keypress after the ringing starts.

2 To end the call, press END.

MAKING A CALL

For best reception, pull the antenna up to extend fully. Do not leave the antenna partly extended.

Open the keypad cover. Enter the number you wish to dial. Remember to include the area code (if this is necessary on your system) even if you are making a local call. The number will be displayed.



3 To correct a mistake, press CLR to delete the last digit, or press and hold CLR to clear the whole display (then re-enter the number).

4 Press **SEND**. The **IN USE** indicator will appear on the display, and the number will disappear when the call is connected.



5 To end the call, press END.



Notes:

If NO SVC is displayed:

You are outside the cellular service area.

If NOT ALLOWED is displayed:

The call is not allowed or your phone is locked. (Refer to 'Call Barring (Menu 14)', page 41 and 'Lock phone (Menu 0)', page 32).

If the signal is poor:

The quality of your call depends on the signal strength of the cellular signal in your

area. The signal strength indicator on the display ('S' in diagram right) shows received signal strength. The more bars showing, the stronger the signal.



If the signal is poor, try moving to a different position. If you are using the phone in a building, you may find that reception is better near a window.

To adjust the earpiece volume:

On the side of the phone, press Δ to increase the volume (maximum level is 5) or ∇ to decrease the volume (minimum level is 1). The volume level you select is displayed. If you try to adjust the volume below level 1, or above level 5, the phone gives a warning beep.

If you are using the handsfree option, the handsfree volume is adjusted. The volume levels for the phone, and handsfree option, are stored independently.

ACTIVATING PIN CALLS

This function allows you to activate or deactivate the PIN call. When this function is set to on, the PIN code is requested at the call setup.

To activate the PIN call:

Enter the control code *, #, 7, 4, 6, 2, 2, 5, 5, # (spells * # PIN CALL #).

The phone prompts for your four-digit PIN CODE?



2 Enter your PIN code and press STO.

The message PIN CALL ON is briefly displayed confirming the PIN call activation.

To deactivate the PIN call:

Enter the control code *, #, 7, 4, 6, 2, 2, 5, 5, # (spells * # PIN CALL #).

The phone prompts for your four-digit PIN CODE?

2 Press STO without entering the PIN code.

The message **PIN CALL OFF** is briefly displayed confirming the PIN call deactivation.

To make a call when the PIN call is set to on:

Make the call in the usual way.

The message **PIN CALL** is displayed. The phone prompts you to wait for a tone (WAIT FOR A PROMPT).



2 After the tone, press the SEND key.

The message SENDING PIN is displayed. If the message remains on the display, press the SEND key to resend the PIN code. Wait for your call to be connected.

Note: When the phone is set to PIN CALL ON, an emergency call to the emergency number programmed into your phone (e.g., 911 or another official emergency number) will be dialed as a normal call without the PIN code request.

MAKING EMERGENCY CALLS

EITHER:

If the phone is not on, switch it on.



2 Press and hold the CLR key for several seconds to ready the phone for calls.



3 Key in the emergency number for your present location (e.g. 911, 112 or other official emergency number). Emergency numbers vary by location.

4 Press SEND.

OR:

Press 9 for two seconds or more.

Note: Official emergency numbers vary by location (e.g. 911, 112 or other official emergency number). However, only one emergency number is programmed into your phone to be dialed automatically by one key emergency dialing, which may not be the proper number in all circumstances. One key emergency dialing does not operate when the keyguard feature is in use and when the Emergency 9 key function is set to OFF. Emergency 9 key is set to OFF when the phone leaves the factory.

QUICK WAYS OF DIALING

Making international calls

To make an international call, either dial the number in the normal way (i.e. starting with the international prefix), or use the built-in quick method, utilizing the internationally-recognized '+' character; '+' is available on the * key.

To use the quick method:

Press *** *** ('+' will be displayed), instead of entering the international prefix, then dial the remainder of the number. For example, calling a UK number can be done by entering a number starting '*** * 4 4**'.

When sent, the international prefix (for the NAM currently selected) will be generated automatically. Note, however, that if you store a number using the international prefix '+', then when recalled it will be displayed with the appropriate dialing code.

Note: To allow international calls, 'Call Barring (Menu 14)', page 41 must be set to '*ALLOW ALL*'.

One-touch dialing

The phone is equipped with 4 one-touch dialing keys. Simply press any one of these keys to dial the associated number (you do not need to press **SEND**).

The following keys offer one-touch dialing:

 Dials the number stored in memory location 96; press and hold the key for 2 seconds. You may store any number in this location.

- # Dials the number stored in memory location 97; press and hold the key for 2 seconds. You may store any number in this location.
- 9 Dials the emergency number (programmed by your dealer); press and hold the key for 2 seconds. This function will not operate if key-guard is active, or if the 'Emergency 9 key' function (Menu 13) is set to OFF. The emergency number is programmed by your dealer, and stored in a special location. You cannot change this number, neither can you recall the number to the display without dialing the number. Refer to 'Making Emergency Calls', on page 13.
- Dials the number stored in memory location 98. This location may already contain your voicemail number string, but you may store any number in this location (e.g. if you are not a subscriber to voicemail). Refer to 'Using voicemail/favorite number', page 16, for further details.

NOTE: When keyguard is activated, none of these keys are operational for one-touch dialing.

When in a call, the *****, **#** and **9** keys do not operate as one-touch dialing keys; instead, they revert to their normal (DTMF tone-dialing) functions.

When in a call, the key does not operate to make a further call. Instead, pressing this key would force DTMF data to be sent if there is data waiting to be sent. For example, the string stored in voicemail memory location 98 might contain the voicemail phone number, then a 'w' and some DTMF data; once a call to the voicemail number had been established, a second press of the key will send the DTMF data.

You may link any memory location to a one-touch dialing key; this will enable you to dial the phone number stored in that location, by simply pressing the key. To do this, store the number of the memory location (i.e. one or two digits only) to be linked, in any of the one-touch dialing memory locations. For example, to link the number stored in memory location 33 to the mathematical term (33' in memory location 98 (voicemail/favorite number); then, when

you press \square , the phone number in memory location 33 will be dialed automatically (speed dialed). This function has the following benefit:

You may change the 'favorite' number which is dialed when the key is pressed; e.g. you may keep several such numbers in normal memory locations, and select the required number by simply storing its location number in location 98, as required. This is preferable to copying contents that exist in other locations to location 98, as this cannot be done when the contents has a name (any particular name can be stored in only one location).

Using voicemail/favorite number

The interval (voicemail) key is designed to allow access to your voicemail (or favorite number) simply by pressing the key once (there is no need to press **SEND**). Once a call is established, a second press of this key will send a PIN number (or DTMF string) if this has been stored.

The voicemail/favorite number facility uses the number stored in memory location 98. You may store any number in this location, if you do not wish to use the voicemail facility. Whatever number is in location 98 will be dialed automatically when \supseteq is pressed.

A typical voicemail number string would be: '222w3333', where '222' is the voicemail number allocated to you by your cellular service supplier, 'w' is the wait character (this is entered by pressing *** * * ***), '3333' is your voicemail PIN code (which would be sent after the second press of the 🖂 key).

Please note that the voicemail service is a system feature, and may not be available on your network. To be able to use voicemail, it must be available on your network, and you must be a subscriber to this service. For further details, ask your network provider. For specific operating instructions refer to the appropriate documentation which may be issued by your network provider.

SPEED DIALING

Speed dialing is the quickest way to recall and dial a number, and is particularly useful for frequently-used numbers. You can speed dial any number already stored in a memory location either by entering the memory location number or the name stored with the number to be called.



Enter the number of the memory location containing the number to be dialed (e.g. 2).

Alternatively, press ABC (to select alpha mode), then enter the name stored with the number to be dialed.

2 Press SEND.

The phone will recall the number/name from memory, display it briefly, then dial the number. If the memory location contains no number, or the name was not found, then no call attempt will be made. If the memory location is empty, the message EMPTY (if in number mode) or NOT FOUND (if in alpha mode) will be displayed.

Last number redial

The last five phone numbers you called or attempted to call are stored in the phone's memory location 0 (L0-L4). This stack of the five last dialed numbers remains in the phone's memory when the phone is switched off.

To redial a last dialed number:



1 If there are any characters on the display, clear the display by pressing and holding the **CLR** key.

- 2 Press the SEND key to display the last dialed number. Use the $\land \lor$ key to scroll through the last dialed numbers. To view the associated names, if the dialed calls were made from the phone directory, press the ABC key and then start scrolling by using the \land \checkmark key. The location number is displayed in the upper right corner of the display (L0-L4).
 - If the stack of the last dialed numbers is empty, the message LOCATION EMPTY will be displayed.



3 To make a call to the displayed number or name, press the **SEND** key.



USING THE MEMORY

GENERAL INFORMATION

Memory locations provided:

- 98 'standard' locations. Each of these may be used to store a number and a name.
- Five locations (numbered 00 to 04) which, together contain the last 5 numbers you dialed. These locations are reserved exclusively for redial numbers, stored automatically by the phone. Location 00 contains the most recent number dialed; location 04 contains the oldest. (See 'Last Number Redial', page 17 for details.)
- One scratchpad memory (location # #); this may be used to store a number during a call.
- One location (99) which holds your own number and the wake-up message.

Location No. Details

1-89	89 standard memory locations. You can use each one to store a name and number of your choice.
90-95	6 standard memory locations. You can use each one to store a name and num- ber which you can call even when the <i>ALLOW M90-M95</i> call barring option is selected. The call barring option restricts the outgoing calls you can make. See page 41 for details.
96	Holds the number that is dialed when you press the * one-touch dialing key for 2 seconds.
97	Holds the number that is dialed when you press the # one-touch dialing key for 2 seconds.
98	Holds your voicemail number or 'favorite' number which is dialed when you press the 🖂 one-touch key.

Holds your own number and the 'wake-up message' – the name or text displayed when you switch the phone ON. You cannot change your number, but can change the wake-up message. See 'Changing the wake-up message' on page 27.

Memory locations 90-99 are allocated for specific purposes. If you wish, however, you may store any information in these locations, in the normal way (except for location 99 where you can store an alpha wake-up message, but cannot store a different 'own number').

Length of numbers and names you may store:

The longest number you can store in a memory location is 30 digits. The longest name you can store is 16 characters.

If you want to store a number <u>and</u> a name, then a maximum of 28 digits and characters can be held in each memory location. For example, if you want to store a 24 digit number, then the maximum length of the accompanying name is 4 characters.

If the name you enter is too long for the space available, one of the following warnings is displayed when you try to store the name.

- NAME TOO LONG. This indicates that the whole name will not fit. Press STO again if you wish to store the truncated name.
- NO ROOM FOR NAME. This indicates that there is no room for any name (no name will be stored).

A name may include any alpha characters, spaces or hyphens.

Memory linking:

The memory linking function allows two or more memory locations to be linked. This permits long strings of characters, such as a phone number with an accompanying DTMF string, to be sent without having to access manually more than one location.

To link two locations: Enter the phone number, then a '+' character (press **) and the number of the second memory location. Store this in the first location. Enter the DTMF string, and store this in the second location.

To send the DTMF string: Recall and dial the phone number in the first location. When the call is established, press **MENU SEND** to send the DTMF string in the second location. For full details, refer to 'Send DTMF (Menu 17)', page 44 and 'To join two memory locations', page 46.

STORING INFORMATION



 With number mode selected, enter the phone number. Remember to include the area code, and any international code, if necessary. To use '+' as the international prefix; press **.



2 If you wish to enter a name, press ABC to select alpha mode, then enter the name (for further details, refer to 'Entering a Name', page 22). All stored names must be different. You cannot store a name that is already stored in any of the memory locations 1-89 or 90-98.

NOTE: When you wish to store a number and a name, always do this as one operation.

3 Press **STO**. The message *STORE* prompts you to specify a memory location number.



4 If you want to store the information in the next free location, as indicated by the number in the upper right hand corner of the display, just press STO. Otherwise, enter a memory location number of your choice (1 to 89 or 90-98). If entering a onedigit number (i.e. for locations 1-9), you may press STO again to complete the operation or wait a moment for the message **STORED** to appear.



If storing was successful, the message STORED will be displayed, confirming that the information has been stored in the location number shown on the display.

However:

- If the location is already occupied when storing a new entry, REPLACE CONTENT? is displayed.
- If the location is empty but the name being stored exists in another location, then MOVE NAME? will be displayed. Confirmation of this causes the location containing the name previously stored to be erased when the new name is stored.

In any of these instances, either:

- Press STO (within 8 seconds) if you want to replace the existing information, or
- Press CLR or wait until the message STORE NOT DONE appears if you do not want to delete the existing information.

The information you tried to store will then re-appear on the display, and you can then store it in another location.

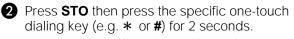
There are some situations where the store cannot be done. In such an instance, a message is displayed:

- If there is no room to store a new entry, MEMORY FULL is displayed.
- If the location chosen is full, and the name being stored already exists in another location then LOCATION FULL is displayed. Either wait for the information you tried to store to re-appear, or press **CLR**, then store the information in another location.
- If the name entered is too long to be stored, then NAME TOO LONG is displayed and the name is truncated. Press STO again to store the truncated name.
- If there is no room at all for the name, then NO ROOM FOR NAME is displayed and the name is deleted. Press STO again to store only the number.

Alternative quick method for storing to the 'one-touch dialing' locations 96, 97 (* and # keys respectively) and location 98 (voicemail/favorite number):



Enter the number/name.



To store a voicemail/favorite number in location 98:

- 1) Enter the number. (Refer to 'Using voicemail/ favorite number', page 16).
- 🛛 Press STO then 🦳

ENTERING A NAME

- 1 If in number mode, press ABC. The NAME? prompt and ALPHA indicator will appear, indicating that the phone is in alpha mode; i.e. when you press a key, letters will appear instead of numbers.
- 2 Press the key labeled with the letter you want. Press it once to obtain the first letter, twice (before the cursor appears) to obtain the second, and three times (before the cursor appears) to obtain the third. If you miss a letter, just keep pressing the key. To enter a space, press 0. To enter a hyphen press 1 three times.



If you want two (or more) letters on the same key (e.g. AA or AB), either:

- press the key to select the first character, wait until the cursor appears, then press the key to select the next character, or
- press the key to select the first character, press *, then press the key to select the next character (this permits faster entry).
- 5 When you have finished entering the name, you may leave alpha mode (and select number mode) by pressing **ABC** again (e.g. to view, enter or edit the associated number).

CORRECTING MISTAKES

Press **CLR** to delete the last digit or character.

Press and hold CLR to clear the whole display. Note that this clears both the number and associated name.



DISPLAYING 'HIDDEN' NUMBERS

The phone will display up to 16 digits at a time. If you enter a number longer than this, the first digits will disappear off the side of the display. If you type more than 32 digits, the first digits will be lost.



1 To view the 'hidden' digits press and hold RCL.

2 To view the original display again, release RCL.

Having displayed a long number, remember to clear the display (press and hold CLR) before attempting to recall information from a memory location (as the **RCL** key is dual function, and will not recall memory locations while a number longer than 16 digits is being displayed).

CLEARING THE CONTENTS OF A MEMORY LOCATION

NOTE: Once deleted, the contents of a memory location cannot be recalled.



1 Press and hold **CLR** to clear the display.

2 Press STO. The message STORE prompts you to specify a memory location number.

3 Enter the number of the memory location you want to delete. The message REPLACE CONTENT? will appear.

4 Press STO (within 8 seconds). The message STORED and the memory location number will be displayed briefly, confirming that the memory location has been cleared. If you do not press STO within 8 seconds, or if you press CLR, the message STORE NOT DONE will be displayed, and the contents of the location will not be cleared.

MOVING THE CONTENTS OF A MEMORY LOCATION

You may move the name and number stored in one location to any empty location. If you attempt to move the contents of a location which contains only a number (i.e. the name part is empty), the number will be copied, rather than moved.

NOTE: Duplicate names are not allowed (i.e. you may store any particular name in only one memory location). If you attempt to store a name which is already stored in another memory location (e.g. move it) the message MOVE NAME? will remind you that the name already exists. If you accept this, and store the contents in the new location, the original name and number will be erased.

To move a name and number (e.g. from location 14 to 25):



Press RCL 14 (or, alternatively, you may press ABC to select alpha mode, enter the name stored in location 14, and press RCL).

2 Press STO 25. If location 25 is empty, MOVE NAME? will be displayed (if it is occupied, LOCATION FULL will be displayed; in this instance choose another location, e.g. press STO 26 to store in location 26).

3 Press STO to move both name and number. The message STORED will be displayed.

If you are 'moving' only a number (i.e. the name part is empty) to an occupied location, the message **REPLACE CONTENT?** will be displayed; press **STO** to overwrite the contents, and copy the number.

RECALLING INFORMATION BY MEMORY LOCATION NUMBER

Enter a memory location number then press RCL (e.g. for location 1 press 1 RCL, or for location 12 press 12 RCL).

The phone number stored in that memory location will be displayed. If the memory location is empty, the message EMPTY will appear.

2 To check the name stored in the same memory location, press ABC. If no name was stored with the number, the message NAME? will be displayed. To return to the number, press **ABC** again.

3 To call the number in the memory location, with either the number or the name displayed, press SEND

Alternative quick method for recalling contents from the one-touch dialing locations 96 and 97 (* and # keys respectively) and location 98 (voicemail/favorite number $\boxed{}$):

- Press RCL then press the * or # keys for 2 seconds.
- Press RCL then press the 🖂 key. The number will then appear on the display.

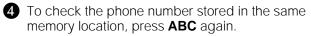
RECALLING INFORMATION BY NAME

Press ABC (to select alpha mode).



2 Enter the name, or the first few letters of the name, you want to recall.

3 Press RCL. The name, and the number of the memory location in which it is stored, will appear on the display.



5 To call the number in the memory location, with either the name or the number displayed, press SEND.

SCROLLING FOR A NUMBER

1 To scroll the stored phone numbers, press \wedge or v. If you have just recalled a memory location by number, scrolling will start from that location. You will scroll all used memory locations in numerical order.

2 When you find the number/name you want, press SEND to make the call.

SEARCHING FOR A NAME

Press ABC (to select alpha mode).

2 Press \checkmark to display the name which is first in alphabetical order (of first letter), or press A to display the name which is last. To display the other stored names, press A or V until you find the name you are looking for. The number of the memory location in which each displayed name is stored will appear in the top right-hand corner of the display.



3 To search faster, just enter the first letter of the name you are looking for, and then press RCL. The first name beginning with this letter will appear on the display. To scroll forward, press $\,\,\mathbf{v}$ (within 15 seconds) to display the next name, and so on. (If no matching name is stored, the message NOT FOUND will be displayed.)



4 To check the phone number stored with the name, press ABC. To continue scrolling the names, press **ABC** again and use \land or \lor .



5 When you find the name you want, with either the name or the number displayed, press SEND to call the number.

USING THE SCRATCHPAD MEMORY

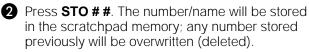
In addition to the 98 'standard' memory locations, the phone has one short-term memory location (the 'scratchpad') in which a number and/or name entered can be stored temporarily.

The scratchpad memory is intended primarily to enable you to store a number during a call, but may be used at any time.

To store a number/name (e.g. during a call):



1 Enter the number (remember to include the area code). To enter a name, press ABC to select alpha mode, and enter the characters.



To recall the number (i.e. after the call is ended):

Press RCL # #. The number will be displayed. To see any attached name, press ABC.

To call the number, press SEND.

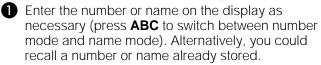
To move a number/name from the scratchpad to a permanent memory location, recall the number/name, then store it as described in 'Storing Information', page 20.

REMINDER MESSAGE FACILITY

You may enter a message (a name and/or a number), just before switching off the phone, and then have that message recalled automatically when you next power the phone on (e.g. to remind you to make a call).

When recalled, the reminder message is shown in alpha mode if there is a text part, otherwise in number mode. You may clear, edit or store the message, or call the number, by switching to number mode (press ABC if in name mode) and pressing SEND.

To enter and store a reminder message:





2 Press MENU momentarily, then press and hold **ON**. The phone switches off, and stores the reminder message automatically.

When you next switch on the phone, the message will be displayed (once); the message will then be erased automatically from memory, and will not appear when you switch on again.

DISPLAYING YOUR OWN NUMBER

Your own number, which is stored permanently in memory location 99, is derived from NAM data which has been programmed by your dealer (you cannot change the number).

To recall your own number:

Press RCL 99.

If your phone is registered on two networks, the number displayed will be that for the network currently used (and relates to the currently-selected NAM); refer to 'NAM Select (Menu 7)', page 37.

CHANGING THE WAKE-UP MESSAGE

The wake-up message is the message which is displayed briefly when the phone is switched on (the message relates to the currently-selected NAM). The wake-up message is normally a name (i.e. text),

and it is stored in the alphanumeric part of memory location 99. If the alphanumeric part of location 99 is empty, then your own number, which is stored in the numeric part of location 99, will be displayed instead.

If your phone is registered on two networks, the wake-up message (and your own number) displayed will be that for the network currently used; refer to 'NAM Select (Menu 7)', page 37.

You may view the wake-up message, at any time, by recalling the alphanumeric part of memory location 99. If you wish, you may change the wake-up message by storing a different name into this location. (Please note that you cannot change or delete your own number, which is stored in the numeric part of memory location 99.)

To change the wake-up (text) message:

- Either, press ABC to select alpha mode and enter the text message, or press RCL 99 to recall the current contents, press ABC to select alpha mode and enter the text message (if necessary, first delete any name already stored).
- Press STO 99. The message REPLACE CONTENT? will be displayed (even if the new name entered is the same as the old name).
- Press STO to store the new name; the message STORED will appear. If stored, the new name is written to the NAM data and stored in the alphanumeric part of location 99 (having no effect on the numeric part).

If you attempt to store a different phone number in memory location 99, the message *NOT ALLOWED* will be displayed, and the number and name will not be stored.

MENU FUNCTIONS

USING THE MENU

The menu allows you to:

- view the current setting of certain functions, and to change the setting of any function to one of the options offered,
- view information.

There are two methods of accessing menu functions:

- 'menu' method (press MENU, use ∧ or ∨ and press STO).
- 'shortcut' method (press MENU and enter a function number).

See menu method below and shortcut method on the next page.

The number of the menu function currently selected is shown in the upper right corner of the display.

Some menus are 'secure', and you must enter the lock code or security code before you can access them. On selecting a menu of this type, you will be prompted with one of these messages:

LOCK CODE? - you should enter your 4-digit lock code (default 1234) and then press STO, or

SECURITY? - you should enter your 5-digit security code (default 12345), and then press STO.

Normally, your dealer will give you these code numbers when you purchase the phone. It will be helpful to memorize them. Do not leave them written where they can be recognized. You may change the lock code, using menu 11, but you cannot change the security code.

To access the menu using the menu method:

Press MENU. The USE TO VIEW message prompts you to scroll the menus.



- 2 Press \land or \lor to scroll the functions until the one you want is displayed.
- 3 Press STO to select the function. If prompted, enter the lock code or security code, and press STO.

The option currently selected, or status, may be displayed.



4 To change the setting to any of the options. offered, press \wedge or \vee to scroll through the options until the one you want is displayed.



5 To select the option displayed (or to accept the lock code or security code entered), press STO.

6 To quit the menu function, without changing the setting, press CLR (or wait for the timeout).

To access the menu using the shortcut method:

Press **MENU**, then enter the number of the menu function required (see 'List of Menu Functions', on the next page).



2 If prompted, enter the lock code or security code, and press STO.

The option currently selected, or status, may be displayed (the menu function name is not displayed first, when using the shortcut method).

When selecting menu 1 or menu 2: there will be a short pause before the options currently selected for these menus appear.



3 To change the setting to any of the options offered, press \wedge or \vee to scroll the options until the one you want is displayed.

4 To select the option displayed (or to accept the lock code or security code entered), press STO.

5 To quit the menu function, without changing the setting, press CLR (or wait for the timeout).

LIST OF MENU FUNCTIONS Menu Name Shortcut Keys Description				
LOCK PHONE	MENU 0 (L)	Locks/unlocks the phone.		
SYSTEM SELECT	MENU 1	Selects roaming mode (system feature).		
RINGING TYPE	MENU 2	Selects the ringing tone type.		
CALL TIMERS	MENU 3 (S)	Displays length of calls. Resets the timers.		
LIGHTS CONTROL	MENU 4	Selects operation of display and keypad lights.		
KEYPAD TONES	MENU 5	Switches keypad tones on/off.		
RINGING VOLUME	MENU 6	Selects volume of ringing tone.		
NAM SELECT	MENU 7	Displays and selects cellular number/network.		
AUTO ANSWER	MENU 8	Sets automatic answer on/off.		
ACCESSORY MENU	MENU 9	Controls accessories connected to the phone.		
CLEAR LAST CALL	MENU 1 0	Sets the last-called numbers to be cleared or retained when phone is switched off.		
CHANGE LOCK CODE	MENU 1 1 (S)	Allows you to change lock code.		
DATA MODE	MENU 1 2	Selects data mode (in a call).		
EMERGENCY 9 KEY	MENU 1 3 (L)	Sets 9 key on/off for one- touch dialing of emergency calls.		
CALL BARRING	MENU 1 4 (S)	Sets call restrictions.		
MEMORY LOCK	MENU 1 5 (S)	Sets memory access restrictions.		
ACTIVATE KEYGUARD	MENU ABC or MENU 1 6	Locks/unlocks the keypad.		
SEND DTMF	MENU SEND or MENU 1 7	Sends DTMF tones (in a call).		

MENU 18 (L) Selects SID to on/off.

NOTE: Menu 18 is available only if SID information has been programmed into the selected NAM by your dealer.

- (L) = requires entry of 4-digit lock code (default is 1234).
- (S) = requires entry of 5-digit security code (default is 12345).

DESCRIPTION OF MENU FUNCTIONS

You may access any of the menu functions by either the menu or shortcut method. For simplicity, in each of the following descriptions of menu functions, only the shortcut method is described.

Lock Phone (Menu 0)

You can lock your phone, using a four digit lock code, to help prevent unauthorized use.

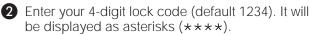
If you forget your lock code, you can change it using menu 11.

When the phone is locked:

- No outgoing calls can be made, but calls may be possible to the emergency number programmed into your phone (e.g. 911, 112 or other official emergency number), including calls by one key emergency dialing ('the 9 key').
- Calls can be received, as usual.
- Memory locations cannot be viewed or changed.

To lock, or unlock, the phone:

Press MENU 0. The message LOCKCODE? prompts you to enter your lock code.



- Press STO to confirm your entry.

Once locked, you can unlock the phone by repeating the procedure described above.

If you make a mistake when locking or unlocking the phone, the message *CODE ERROR* will be displayed. In this instance, start again from the beginning.

On entering the correct lock code:

- When locking the phone, the message *LOCKED* will be displayed, and will remain to remind you that the phone is locked.
- When unlocking the phone, the message *UNLOCKED* will appear briefly.

For other options, which provide more-selective restrictions, you may use the Call Barring function (Menu 14), page 41, or the Memory lock function (Menu 15), page 42.

System Select (Menu 1)

Each cellular service area can have two cellular service suppliers, called carriers. One carrier operates the 'A' system, and the other carrier operates the 'B' system (these systems are generally known as 'non-wireline' and 'wireline', respectively). Your phone is designed to work with both carriers.

This menu function allows you to program your phone for optimum operation when in your home service area or when away from your home area (this is called roaming). You may select any of the following roaming modes:

System A NAM Selected*	System B NAM Selected*	
HOME AREA	HOME AREA	The phone uses only the home area and home system.
BOTH SYSTEMS	BOTH SYSTEMS	The phone uses either sys- tem A or B, whichever is the stronger signal.
HOME TYPE A	HOME TYPE B	The phone uses only the home system.
NON-HOME TYPE B	NON-HOME TYPE A	The phone uses only the non-home system.

*The home system depends on the current NAM selection; refer to 'NAM Select (Menu 7)', page 37.

When you buy your phone, you may register (receive a phone number) with either or both of your local carriers.

Contact the office of your home cellular phone company for information about the roaming agreements they have with other cellular phone companies.

In some areas, roaming telephones are automatically recognized by the cellular system. In other areas, you must contact the cellular phone operator before the system can recognize your phone. The company needs to know your telephone number, the ESN (Electronic Serial Number) of your phone, and how you plan to pay for your calls. There is usually an additional charge for roaming calls.

NOTE: The ESN can be found on the phone's label inside the battery compartment.

To select the roaming mode:

Press MENU 1. (Wait for the currently selected option to appear.)



2 Press \land or \lor to select the roaming mode you prefer.



3 Press **STO** to confirm the setting. The phone will use this setting in a few seconds.

For the function of the ROAM indicator on the display, refer to 'Display Indicators', page 7.

Ringing Type (Menu 2)

This function allows you to select, and demonstrate, any one of the five types of ringing tones:

- the standard tone (STANDARD), or
- one of four optional tones (OPTIONAL 1, 2, 3 or 4).

To select the ringing tone:

- Press **MENU 2**. (Wait for the currently selected) option to appear.)
- Press A or V to choose the type you prefer.
- Press STO to confirm the setting.



Call Timers (Menu 3)

This function allows you to check the duration of the calls you have made, on the currently-selected NAM (phone number), and to reset the call timers.

You may display three call timers; shown in hours, minutes and seconds:

- Duration of the current or last call (LAST ... : ...).
- Duration of all calls you have made on the currently active NAM except the current call (TOTAL ... : ...).
- Non-resetable timer showing duration of all calls you have made on the currently active NAM except the current call (*LIFE : ...*).

You can use the **RESET TIMERS** option to reset the **LAST** and **TOTAL** timers.

The LIFE timer can not be reset.

To display the call timers, or reset the call timers:

Press MENU 3. The duration of the current or last call will be displayed (LAST ... : ...).

2 Press ∨ once to display *TOTAL*, twice to display *LIFE*, and three times to display *RESET TIMERS*.

Note: LIFE timer may also be accessed by pressing and holding the MENU key for 4 seconds.

To reset the call timers:

With the message *RESET TIMERS* displayed, press **STO**. The message *SECURITY*? prompts you to enter your security code.

Enter the 5-digit security code (default 12345), and press STO. On entry of the correct code, the message TIMERS CLEARED will be displayed to confirm that the timers have been set to zero. If you entered an incorrect security code, the message CODE ERROR will appear; in this instance, repeat the above procedure.

NOTE: The call timers are designed to give an approximate indication, and may not reflect actual network usage.

The current timer does not update during a call.

Lights Control (Menu 4)

This function allows you to select the operation of the keyboard and display illumination. To conserve battery power, set to LIGHTS OFF.

When set to LIGHTS ON:

- If the phone is used as a handportable, or is connected to a charger: The lights switch on when a key is pressed; they remain on for 15 seconds after the last keypress, then switch off.
- If the phone is connected to a car kit: The lights are on continuously.

When set to LIGHTS OFF:

- If the phone is used as a handportable, or is connected to a charger: The lights are continuously off.
- If the phone is connected to a car kit: The lights switch on when a key is pressed; they remain on for 15 seconds after the last keypress, then switch off.

To set operation of lights:

Press MENU 4.



2 Press ∧ or ∨ to select LIGHTS ON or LIGHTS OFF.

3 Press **STO** to confirm the setting.

Keypad Tones (Menu 5)

This function allows you to set the keypad tones on or off.

When set to TONES ON, a tone will be heard with each keypress. When set to TONES OFF, no keypress tone will be heard.

To set keypad tones on or off:

Press MENU 5.



- 2 Press ∧ or ∨ to select TONES ON or TONES OFF.
- Press STO to confirm the setting.

If the phone is connected to a car kit:

The options will be different; you may select one of three volume levels (*VOLUME LEVEL 1, 2, 3*) as well as *TONES OFF* (press \land or \lor to select).

DTMF tones can be sent (when in a call) even if the keypad tones are switched off.

Ringing Volume (Menu 6)

This function allows you to select and demonstrate the ringing volume level, or set it to off. You may select:

- RINGING LOW: Quiet ringing tone.
- RINGING HIGH: Loud ringing tone.
- SILENT SERVICE: No ringing tone; instead, when an incoming call is received, only a short beep will be heard, and the lights will flash. The message SILENT will be displayed (when you are not entering digits) to remind you that there will be no ringing tone. All other tones (including keypress tones), except warning tones, will be switched off.

To set ringing volume level:

Press MENU 6.

2 Press \land or \lor to select the option you want.

3 Press **STO** to confirm the setting and hear a sample of the volume level.

If the phone is connected to a car kit:

The options will be different; you may select one of five volume levels (*RINGING LEVEL 1, 2, 3, 4, 5*) as well as *SILENT SERVICE* (press ∧ or ∨ to select) and **STO** to confirm.

NAM Select (Menu 7)

The phone has a two-number capability which lets you subscribe to competitive cellular services in your area and other cities. Your phone can be programmed (by your dealer) with up to two numbers; each is stored in a NAM (Number Assignment Module).

This menu function allows you to select either of your numbers (if two have been programmed).

NOTE: You cannot change from one network (number) to the other during a call (if you do attempt to change the network, the message CALL IN PROGRESS will be displayed, and no action will result). If you are only registered on one network you cannot access the other.

To display your number, or change the network/number:



1 Press MENU 7. The telephone number which the phone is currently using will be displayed.



2 Press \land or \lor to select the other number/network.

3 Press STO to confirm. The phone will use this setting in a few seconds.

Auto Answer (Menu 8)

The Auto Answer function has 2 options: AUTO ON and AUTO OFF.

If AUTO ON is selected when the phone is connected to a Handsfree Car Kit and is in handsfree mode, the phone will automatically anwer a call after the first ring. It does this by switching from standby to talk mode.

To set auto-answer on or off:

Press MENU 8.



2 Press ∧ or ∨ to select AUTO ON or AUTO OFF.

3 Press STO to confirm the setting.

Accessory Menu (Menu 9)

This function allows you to control accessories connected to the phone via a Handsfree Car Kit.

To select the accessory menus:

 Press MENU 9. If no accessories are connected, or an accessory having no associated menu is connected, the message NONE PRESENT is displayed. If you have one or more accessories connected, the name of the first accessory is shown.



If you have more than one accessory connected, press A or v to scroll the accessory list, until you find the accessory whose setting you wish to change.



3 Press STO to select the desired accessory menu, then press \wedge or \vee to scroll the options.



4 To store the new setting in memory press STO.

The messages generated by specific accessories will be found in the respective user guides supplied with them.

Clear Last Call (Menu 10)

This function allows you to set the phone to clear, or retain, (automatically) the last numbers dialed when the phone is switched off. The phone automatically stores the last five numbers dialed; refer to 'Last Number Redial', page 17, for further details.

To clear or retain the last numbers dialed:

Press MENU 1 0.



2 Press ∧ or ∨ to select CLEAR LAST ON (to clear the numbers) or CLEAR LAST OFF (to retain the numbers).

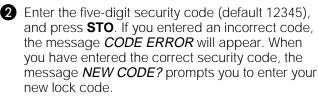
3 Press STO to confirm the setting.

Change Lock Code (Menu 11)

This function allows you to change the lock code of your phone. (You will need to enter your security code in order to change the lock code.)

To change the lock code:

1 Press MENU 1 1. The message SECURITY? prompts you to enter your security code.





3 Enter the new four-digit lock code and press STO. The code may contain numeric digits only; other characters (e.g. #, *) are not allowed. The message STORED confirms that the new lock code has been set.

Data Mode (Menu 12)

This function allows you to send data, while in a call. Your phone must be connected to a Handsfree Car Kit or a data-compatible accessory in order to send data.

To send data:



 Press MENU 1 2. You must have a call in progress, otherwise the message NO CALL ACTIVE is displayed. When the phone is in data mode, the message DATA ACTIVE is displayed.

For further information on sending and receiving data, refer to the user guide supplied with your data adaptor.

Emergency 9 Key (Menu 13)

This function allows you to set the one-touch dialing function for the emergency key (9) to on or off:

Allows you to make an emergency call by ON pressing and holding 9 for 2-3 seconds.

> NOTE: Official emergency numbers vary by location (e.g. 911, 112 or other official emergency number). However, only one emergency number is programmed into your phone to be dialed automatically by one key emergency dialing, which may not be the proper number in all circumstances. One key emergency dialing does not operate when the keyguard feature is in use.

OFF Disables the ability to make an emergency call using the 9 key. This setting may be useful to prevent making unwanted emergency calls (e.g. by accidentally holding the key), without having to disable all keys by setting keyguard to on.

NOTE: The factory setting for this option is OFF.

To set the emergency key to on or off:

- Press MENU 1 3. The message LOCKCODE? prompts you to enter your lock code.
- 2 Enter your 4-digit lock code (default 1234). The number will be displayed as asterisks (****), then press STO. If the correct lock code has been entered, the currently-selected option will be displayed.





3 Press ∧ or ∨ to select EMERGENCY 9 ON or OFF.

4 Press **STO** to confirm the setting.

Call Barring (Menu 14)

This function allows you to restrict certain types of calls:

No Restrict (ALLOW ALL) The phone operates normally (no call restrictions).

International Call Barring (ALLOW NATIONAL)

International calls cannot be dialed (see note below). All other outgoing calls and incoming calls are allowed.

NOTE: This option only restricts calls having a specific international dialing prefix, as programmed by your dealer. If any other international prefix is in use on your system, and you dial that prefix, then you will still be able to make international calls, even if this option is selected. With this option selected, it may still be possible to make any international call via the operator.

Local Only (ALLOW LOCAL)

Only calls to local numbers having seven digits (or less) and emergency calls can be made (emergency calls can be made by normal dialing or by using onetouch (9) dialing). Incoming calls are allowed.

NOTE: With this option selected, it may still be possible to make any call via the operator.

Memory Calls Only (ALLOW M90-M95)

Only calls to numbers stored in memory locations 90 to 95 and emergency calls can be made (emergency calls can be made by normal dialing or by using one-touch (9) dialing). You may recall numbers from locations 90 to 95, but will not be permitted to store numbers to these locations. Incoming calls are allowed.

NOTE: This option effectively takes memories 90 to 95 out of the memory locking scheme (Menu 15), and makes them readable. These memories will be readable, even if the MEM NO ACCESS Memory Lock option is selected. The Lock Phone function (Menu 0),

page 32, however, sets all call restrictions and locking so that no memories are accessible.

All these options will be temporarily overridden if the phone is locked (to lock the phone, use Menu 0), page 32.

To set the call barring option:



Press MENU 1 4. The message SECURITY? prompts you to enter your security code.

 Enter your 5-digit security code (default 12345). The number will be displayed as asterisks (*****), then press STO. If the correct code has been entered, the currently-selected option will be displayed.



3 Press \land or \lor to select the call barring option you prefer.

4 Press STO to confirm the setting.

Note: When calls are restricted, calls may be possible to the emergency number programmed into your phone (e.g. 911, 112 or other official emergency number). However, one key emergency dialing ('the 9 key') may not operate depending on the type of restriction you chose.

Memory Lock (Menu 15)

This function allows you to restrict access to all memory locations:

MEM NORMAL

The phone operates normally (no memory restrictions). MEM READ ONLY

Storing is not allowed to any location (but any location can be recalled).

MEM NO ACCESS

Storing or recalling is not allowed (all locations).

NOTE: This option will be partially overridden if the ALLOW M90-M95 Call barring option (Menu 14), page 41, is selected.

To set the memory-locking option:

Press MENU 1 5. The message SECURITY? prompts you to enter your security code.





 Enter your 5-digit security code (default 12345). The number will be displayed as asterisks (*****), then press STO. If the correct code has been entered, the currently-selected option will be displayed.



3 Press \land or \lor to select the memory-locking option you prefer.

4 Press STO to confirm the setting.

You may recall your own number (in location 99), at any time, regardless of the MEM NO ACCESS memory locking option.

You cannot use the memory linking function to link to a memory that is barred from recall by the MEM NO ACCESS option.

For (limited) access to memories 90 to 95 only, use the Call barring function (Menu 14), page 41. Select the ALLOW M90-M95 option to allow recall (only) of locations 90 to 95 inclusive, regardless of the Memory Lock option selected. The ALLOW M90-M95 option thus gives some override to the Memory Lock MEM NO ACCESS restrictions.

Keyguard (Menu 16)

The phone's keypad may be locked to prevent unintended keypresses from being made when the phone is in a pocket or a bag. No security code is required to activate or deactivate the keyguard feature.

To activate the keyguard:

Press and hold the END key. You can also activate the keyguard by first pressing the **MENU** key and then the ABC key.

The message KEYGUARD ACTIVE remains on the display until the keyguard is deactivated.

When you press a key, the phone prompts you to press the MENU key (PRESS MENU).

To deactivate the keyguard:

Press the MENU key first and then the ABC key. (at NOW PRESS ABC prompt).

The message KEYGUARD OFF is briefly displayed indicating that the keyguard has now been deactivated.

When keyguard is activated:

- To answer a call, press the SEND key. During the call, the keypad remains unlocked and the phone can be operated in the normal way.
- To end a call, press the **END** key. After the call is ended, the keyguard automatically becomes active again.
- The phone can not be switched off before the keyguard is deactivated.

Note: When the keyguard is activated, calls may be possible to the emergency number programmed into your phone e.g., 911 or another official emergency number). However, one-touch emergency dialing ('the 9 key') does not operate.

Send DTMF (Menu 17)

You can transmit numerical information as a series of tones, using the DTMF facility (e.g. to check for messages in your answering machine). There are two ways to send DTMF tones:

Manual Dialing:

Make the call in the usual way.

2 When the call has been answered, enter the numbers. Each number is sent immediately, as a DTMF tone. The length of the tone depends on how long you press the key.

Automatic Dialing:

Make the call in the usual way.

2 When the call has been answered, use the RCL key to recall a stored 'DTMF' number from a memory location (e.g. for location 23, press RCL 23).



3 To send the whole number (displayed) as DTMF tones, press MENU SEND, or MENU 17. A series of tones, each tone representing a digit of the DTMF number, will be heard.

The special characters '+', 'p' and 'w' are used for DTMF dialing; these are available on the * key.



To place a pause between DTMF digits (when entering the number):

Press *** * ***. The 'p' character will be displayed. When the DTMF number is sent, a pause of 2.5 seconds will be inserted automatically.

To place a 'wait' character (when adding a DTMF string to a phone number, or requiring a 'wait' within a DTMF string):

It is necessary to place a 'wait' character ('w') between a phone number and the subsequent DTMF string. In addition, you may include a 'w' character at any point in a DTMF string, if required.

On reaching each 'w' character, the phone 'waits' for you to press SEND. On pressing SEND, the phone will automatically send as DTMF all the numbers or digits following the 'w' (until the next 'w', if any, is reached). You can also press MENU SEND or MENU 17 at this point to send DTMF.

To enter a wait character (to precede a DTMF string, or within the string):



 Recall the phone number, or enter the number, as appropriate.



2 Press * * * *. The 'w' (wait) character will be displayed, after the phone number.

- 3 Enter the DTMF number (i.e. after the 'w' character).
- 4 To enter a 'w' character within the DTMF number, press * * * *.

5 Store the whole sequence in a memory location.

To send DTMF numbers:

- 1 Recall the phone number from memory using the RCL key.
- 2 Make the call in the usual way (i.e. press SEND).
- 3 When the call has been answered, press SEND again to send the DTMF number.
- 4 If any further wait character is encountered, within the DTMF string, press SEND again to send the remaining part of the DTMF string.
- 5 To stop DTMF sending, press CLR.



Note that when the keypad tones are switched off, the DTMF tones are still sent, even though they cannot be heard.

To join two memory locations, in order to send a long DTMF string:



1 Recall the phone number to the display (the location in which this is stored is called the 'first' location, in these instructions).

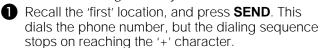


2 Press * *. The '+' character will be displayed, after the phone number.

3 Enter the number (one or two digits) of a 'second' memory location which is to be linked to that already selected. Store the new contents in the 'first' location.

Press **** to enter a 'w' character followed by the DTMF string and store in the 'second' memory location.

To make a call using the two joined locations:



2 When the call is established, press **SEND**. This will cause the phone to send automatically the DTMF sequence in the 'second' location.

NOTE: '+', 'p' and 'w' cannot be keyed while in a call; pressing * will send a DTMF tone only.

SID Screen (Menu 18) – Only available in models where this feature is available

System Identity (SID) information can be programmed into the phone by your dealer (the identities of specific networks on which the phone will operate can be programmed into each NAM).

NOTE: This menu will appear only if SID information has been programmed into the selected NAM (use Menu 7 to select a NAM).

You may set the 'SID Screen' function to on or off (SID SCRN ON/OFF). Depending on (1) the programmed information, (2) the system selected (using Menu 1), and (3) the actual availability of networks in your area, setting SID to on or off will provide the following conditions:

- SID SCRN ON: Your phone will attempt to select one of the dealer programmed (e.g. low cost) preferred types of networks. However, you may experience poor call quality if only distant networks of this type are available. If no preferred service is available on this type of network, then the message SID SCRN BARRED will appear, and the NO part of the NO SVC indicator will flash. In this instance, you may be able to make emergency calls (depending on the network and the emergency number programmed into your phone) but will not be able to make any other calls, or receive any calls. Note: When SID SCRN is set to on, 'System Select (Menu 1)' will automatically be set to "Both Systems".
- SID SCRN OFF: You will always obtain the highestquality call possible. However, the phone may roam, and the cost of calls when roaming may be greater (refer to 'System Select (Menu 1)', page 33).
- To set SID to on or off:
- Press MENU 1 8. The message LOCKCODE? prompts you to enter your lock code.
- Enter your 4-digit lock code (default 1234). The number will be displayed as asterisks ****, then press STO. On entry of the correct code, the currently-selected option will be displayed.



3 Press ∧ or ∨ to select SID SCRN ON or OFF.

4 Press STO to confirm the setting. The phone will use this setting in a few seconds.

Hook Flash Function and 3 Party Calls

Your cellular system may offer a 'hook flash' (call waiting) service. This system feature lets you accept a second call when you already have a call in progress. Your cellular system may also offer a '3 Party Call' service. This system feature lets you make a second call when you already have a call in progress. It also allows you to link the first and second call so that all 3 parties can converse.

Contact your cellular service provider for further details.

BATTERY INFORMATION

Installing/removing the battery

Refer to 'Installing the Battery' (page 8). Always switch off the phone before removing the battery.

Charging Information

Remember that you must charge the battery before you can use the phone. After its initial charging, a battery may be charged with the phone switched on or off; charging will be slightly faster with the phone switched off. You can use the phone while the battery is being recharged.



TO ACHIEVE FULL BATTERY CAPACITY, NEW BATTERIES **MUST BE CHARGED** WITH THE PHONE OFF FOR AT LEAST 24 HOURS **BEFORE INITIAL USE.**

Standby and Talk Times

Approximate standby and talk times, for fully-charged batteries:

Battery Type	Talk time	Standby time
*Slim NiCd 380mAh (BTH-8S)	50 minutes	10 hours
Slim NiMH 550mAh (BTH-8SM)	70 minutes	15 hours
Extended NiCd 800mAh (BTH-8H)	110 minutes	26 hours
Ultra Extended NiMH 1100mAh (BTH-8HM)	150 minutes	32 hours
*Subject to availability.		

NOTE:



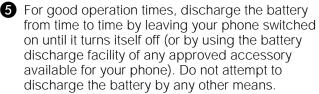
 Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles!

2 Standby time will be reduced by approximately 1 hour for every 6 minutes of talk time.



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

4 Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its life. If left unused a fully charged battery will discharge itself in about a week at room temperature.



6 Temperature extremes will affect the ability of your battery to charge: it may require cooling or warming first.

7 Use the battery only for its intended purpose.

- 8 Never use any charger or battery which is damaged or worn out.
- 9 Do not short circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the back of the battery) for example when you carry a spare battery in your pocket or purse. Short circuiting the terminals may damage the battery or the connecting object.
- Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15° C and 25° Č (59° F and 77° F). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. NiMH batteries performance is particularly limited in temperatures below -10°C (14° F).





Dispose of used batteries in accordance with local regulations. Recycle! Do not dispose of batteries in a fire!

Battery Charge Indicator

The battery charge indicator on the display shows the approximate level of charge. The indicator consists of a number of bars; the more bars showing, the greater the remaining charge.



Non-charging indication

If the battery is too hot or cold the bars on the battery charge indicator will flash (and the battery will not be charged).

Low-Battery Indication

When the charge falls to approximately 5% of the battery's capacity, the message BATTERY LOW is displayed and the phone beeps once. This warning is repeated every five minutes if the phone is in standby mode, or every minute if in a call.

When the battery is fully discharged, the message **RECHARGE BATTERY** is displayed and the phone beeps three times. The phone then switches off automatically.

Battery Performance

Batteries will last longer and perform better if allowed to discharge fully at least once a week. You can do this by leaving the phone switched on overnight (or longer for an Extended Battery, type BTH-8H or an Ultra Extended Battery BTH-8HM), until the message RECHARGE BATTERY is displayed and the phone switches off. Alternatively, you can use the deepdischarge facility if this is available on your (optional) Compact Desktop Charging Stand CHH-6F.

Storage

When a battery is not in use, store it uncharged in a cool, dark and dry place. If left unused, a fullycharged battery will discharge itself in a few weeks at room temperature.

REFERENCE INFORMATION

LIST OF DISPLAY MESSAGES

AUTO PWR OFF

Phone is installed in a car kit with ignition sense connected. When ignition is switched off, this message appears, and the phone will switch off automatically in 5 seconds.

BATTERY LOW

Appears when battery charge is down to approximately 5% of the battery's capacity, then every 5 minutes if phone is in standby mode, or every minute if it is in a call.

CALL

Indicates that you are receiving a call, or have not answered an incoming call.

CALL IN PROGRESS

Appears if you try to change from one cellular network to another in mid call.

CODE ERROR

Indicates that you have entered an invalid lock code or security code.

DATA ACTIVE

The phone is in data mode.

EMPTY

Displayed when you try to recall information from an empty memory location.

KEYGUARD ACTIVE

The keyguard function is switched on.

KEYGUARD OFF

The keyguard function is switched off.

LOCATION FULL

The memory location to which you are trying to move information is already occupied.

LOCK CODE?

Enter your 4-digit lock code (default 1234).

LOCKED

The phone is locked.

MOVE NAME?

Displayed if you are trying to store a name which already exists, or are moving stored contents which include a name.

NAM ERROR

The NAM contains erroneous data; contact your dealer.

NAME?

Enter a name (you have selected alpha mode).

NAME TOO LONG

The name you have entered will not fit completely in the memory location and will be truncated (press **STO** again to accept the shortened name).

NEW CODE?

Enter a new lock code.

NONE PRESENT

There are no accessories connected to the phone.

NO CALL ACTIVE

Data mode cannot be used as there is no call in progress.

NO ROOM FOR NAME

The associated number in the selected memory location is too long to allow space for a name (press **STO** again to proceed).

NO SERVICE

Appears if you try to make a call when no cellular service is available.

NO SPACE

Indicates that all memory locations are full.

NOT ALLOWED

Indicates that you have tried to store a number in an invalid memory location (e.g. 00) or call a barred number.

NOT FOUND

Indicates that the name you are trying to recall does not exist.

PRESS 'MENU' and NOW TYPE 'ABC'

A key was pressed while keyguard was active; to switch off keyguard, press **MENU** then **ABC**.

RECALL

Prompts you to enter the desired memory location number, when wishing to recall information from the memory.

RECHARGE BATTERY

Appears for 10 seconds before the phone switches off automatically.

REPLACE CONTENT?

Indicates that the memory location in which you are trying to store is already in use.

SECURITY?

Enter the security code (default 12345).

SILENT

Indicates that the ringing tone is switched off (i.e. *'SILENT SERVICE'* option is selected).

SID SCRN BARRED

(NO flashes, SVC steady) No service is available due to SID function (Menu 18).

To attempt to regain service, set SID SCRN to OFF.

STORE

Prompts you to enter a memory location number, when storing or deleting contents.

STORE NOT DONE

Indicates that you chose not to store new information in a memory location that was already occupied.

STORED

Indicates that storing to memory was succesful.

TIMERS CLEARED

Indicates that call timers have been set to zero.

UNLOCKED

The phone has been unlocked.

USE 🗘 TO VIEW

Indicates that you have entered the menu; press \land or \lor to scroll the functions.

VOLUME 1 through VOLUME 5

Indicates the earpiece volume level selected.

LIST OF TONES

Ringing Tone: This denotes an incoming call. The tone volume can be selected using Menu 6, and the ring-tone type can be selected using Menu 2.

Keypress Tone: This (single) tone denotes a valid keypress.

Re-order Tone: This (triple) tone indicates that your attempt to originate a call was unsuccessful (e.g. the network was busy) or your call has been terminated for some other reason.

Low Battery Tone: This (single) tone denotes that the remaining battery charge is low. The *BATTERY LOW* message is displayed at the same time. The tone sounds every 5 minutes if phone is in standby mode, or every minute if in a call.

Recharge Battery Tone: This (triple) tone denotes that battery charge is extremely low, and that the phone will no longer operate. *The RECHARGE BATTERY* message is displayed at the same time. The phone will switch off automatically within 10 seconds.

Charger-connected Tone: This tone (single beep) denotes that a charger has been connected; charging may start. The tone will be heard even when phone is switched off.

Auto Power-off Tone: In a car kit equipped with ignition sense, this tone denotes that the power will be switched off automatically. *The AUTO PWR OFF* message is displayed at the same time.

Error Tone: This (long) tone indicates that cellular service cannot be obtained (e.g. you are not within the service area). In a car kit equipped with ignition sense, the tone denotes that the phone will switch off automatically in 5 seconds.

CARE AND MAINTENANCE

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

Keep the phone and all its parts and accessories out of small children's reach.

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

Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.

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

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

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

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

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

If the phone or any of its accessories are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

TROUBLESHOOTING

If the power does not come on or stay on:

- make sure that the battery is installed properly.
- be sure that the contacts on the battery, and on the Desktop Stand (if used), are clean.

- watch and listen for the low battery warnings; the charge may be too low for the phone to operate.

If the power comes on, but the phone does not work:

- you may be out of the cellular service area (as denoted by the NO SERVICE message or NO SVC indicator being displayed).
- make sure the antenna is fully extended.

ACCESSORIES

A range of accessories is available for your phone. Please consult your local dealer for availability of specific items, and advice. Certain accessories are described briefly on the following pages.

IMPORTANT!

Use only 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.

Installation of complex car equipment must be completed by qualified personnel only.

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

Batteries

*Slim NiCd, 380mAh (BTH-8S). Slim NiMH, 550mAh (BTH-8SM). Extended NiCd, 800mAh (BTH-8H). Ultra Extended NiMH, 1100mAh (BTH-8HM) *Subject to Availability



Refer to 'Battery Information', page 48, for further details.



Nickel Cadmium and Nickel Metal Hydride batteries must be recycled or disposed of properly. Must not be disposed of in municipal waste.

AC Chargers

Standard Travel Charger (ACH-3U)

This light and compact AC charger is an economical charging option. For the approximate charging time for each of the different types of batteries, refer to 'Charging the Battery', page 8.

To use the Standard Travel Charger, simply plug it into a standard AC outlet, and connect the lead from the charger to the bottom of the phone.

NOTE: Do not attempt to use ACH-3U with Compact Desktop Charging Stand CHH-6F.

Rapid Travel Charger (ACH-4U)

This light and compact rapid AC charger is ideal for active users. For the approximate charging time for each of the different types of batteries, refer to 'Charging the Battery', page 8.

To use the Rapid Travel Charger, simply plug it into a standard AC outlet, and connect the lead from the charger to the bottom of the phone.

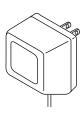
Desktop Stands Light Desktop Stand (CHH-6FL)

The Light Destop Stand provides convenient desktop charging of the phone when used in conjunction with a charger. The Light Desktop Stand is compatible

with the Standard Travel Charger (ACH-3U) and the Rapid Travel Charger (ACH-4U). Plug the charger connector into the socket at the rear of the Light Desktop Stand and ensure that the phone is fitted properly.







Compact Desktop Charging Stand (CHH-6F)*

The Compact Desktop Charging Stand allows you to charge both the phone and a spare battery. The spare battery will be charged after the phone battery has been charged.



The Compact Desktop Charging Stand must be used in conjunction with a charger; use either the Rapid Travel Charger (ACH-4U) or the Rapid Cigarette Lighter Charger (LCH-2). Plug the charger connector into the socket at the rear of the Stand, and ensure that the phone and/or spare battery is/are properly fitted.

A 'deep discharge' feature is provided. To discharge the spare battery, press the button on the Compact Desktop Charging Stand. When the battery is totally discharged, recharging starts automatically. (If you wish to stop discharging, press the button again to start the charging immediately.) Only the spare battery can be discharged. It is recommended that the battery is fully discharged at least once a week.

The small LED indicates the charging status of the spare battery. The larger LED indicates the charging status of the phone battery.

When the spare battery is discharging the LED flashes red.

When the spare battery or phone is recharging (using fast charging), the relevant LED shows red (no flashing).

When the spare battery or phone is 80% charged and ready to use, the steady red light changes to green. If you wish, you can now continue to charge the battery or phone to full capacity (using trickle charging), but this takes a few hours more.

*Subject to Availability

Rapid Cigarette Lighter Charger (LCH-2)

You can charge the phone battery from your vehicle's cigarette lighter using the Rapid Cigarette Lighter Charger.

J

The Rapid Cigarette Lighter Charger plugs into the cigarette lighter socket in your vehicle. Avoid prolonged charging with the Rapid Cigarette Lighter Charger when the vehicle's engine is not running, otherwise you may cause an undue drain on your vehicle battery. Note that, in some vehicles, the cigarette lighter socket is not powered while the vehicle ignition is switched off.

A red light indicates charging, and a green light indicates that trickle charge has started and the phone is ready for use (check the charge on the phone display).

While in a call, the light will alternate between red and green. Note that the input voltage range is from 10V to 30V DC, negative grounding.

Optional In-Car Accessories (Available Early 1997)

Optional In-Car Accessories include the Mobile Holder (MBH-9F), the Compact Handsfree Car Kit (CARK-14F / CARK-43F) and the Complete Handsfree Car Kit (CARK-15F). For further details please refer to the Accessory brochure supplied with the phone.

Functions which are available with the Complete Handsfree Car Kit (CARK-15F)

Ignition Sense, Car Radio Mute. For further details regarding these functions please refer to the Accessory brochure supplied with the phone.

Options available for the Complete Handsfree Car Kit (CARK-15F)

Booster Kit (BSHK-2). For further details regarding this accessory please refer to the Accessory brochure supplied with the phone.

Fax and Data Accessories

The phone can be used in connection with various data acessories. For further details, please refer to the Accessory brochure supplied with the phone.

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Only Nokia Genuine Accessories give you the kind of performance Nokia phones are famous for. Nokia Genuine Accessories reliability and quality that's the best choice for your phone.

TECHNICAL INFORMATION

Dimensions:	5.8" x 2.1" x .91"
Weight:	7.9 oz with battery BTH-8S
Transmitting Power:	0.6W +2dB -4dB ERP
Operating Voltage:	Internal battery: 6.0V DC
Input to AC chargers:	Type U 120V
Input to Compact Handsfree Car Kit: Input to Complete Handsfree Car Kit: Input to Rapid Cigarette Lighter Charger: Frequency Band:	10.8 to 16V DC 10.8 to 16V DC 10 to 30V DC 824 to 849 MHz (TX) 869 to 894 MHz (RX)

USA

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NOKIA One-Year Limited Warranty

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

- The limited warranty for the Product extends for ONE

 year beginning on the date of purchase of the Product.
- 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, NMPI will repair, or replace, at NMPI'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. NMPI will also pay for the labor charges incurred by NMPI 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.
- Upon request from NMPI, the Consumer must provide information to reasonably prove the date of purchase.
- The Consumer shall bear the cost of shipping the Product to the Customer Service Department of NMPI. NMPI shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.
- The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
- 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 NMPI, including damage caused by shipping and blown fuses.

- b) The Customer Service Department at NMPI 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 cellular system, or by inadequate signal reception by the external antenna.
- If a problem develops during the limited warranty period, the Consumer should take the following stepby-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 NMPI, at the phone number listed on 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 NMPI 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 NMPI after the expiration of the warranty period, NMPI's normal service policies shall apply and the Consumer will be invoiced for all shipping charges.
- 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. NMPI 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 NMPI 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.
- NMPI 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.
- Questions concerning this limited warranty may be directed to the Customer Service Department at Nokia, 6200 Courtney Campbell Causeway, Suite 900, Tampa, FL 33630. Telephone (813) 288-3800 or 1-800-666-5553, 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.

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