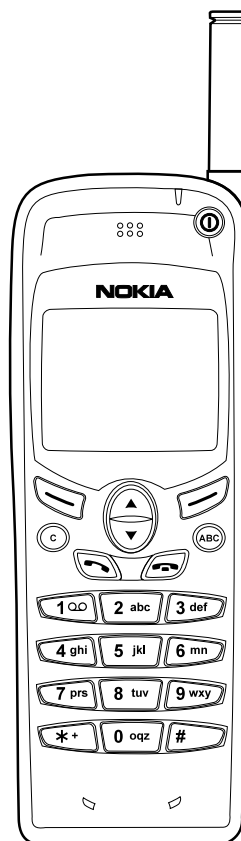


## User's Guide



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Issue 2

**9351391**

## For Your Safety



### FOR YOUR SAFETY

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



### QUALIFIED SERVICE

Only qualified service personnel must install or repair equipment. Use only approved accessories and batteries.



### ROAD SAFETY COMES FIRST

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



### SWITCH OFF IN AIRCRAFT

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



### SWITCH OFF IN HOSPITALS

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



### INTERFERENCE

All mobile phones may be subject to interference which could affect performance.



### USE SENSIBLY

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



### MAKING CALLS

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



### SWITCH OFF WHEN REFUELLING

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



### EMERGENCY CALLS

Ensure that the phone is switched on and in service. Hold for several seconds, to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.



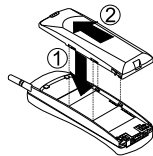
### SWITCH OFF NEAR BLASTING

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

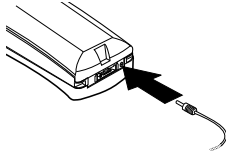
## Quick Start

Here are a few basic instructions about using your new Nokia 550 phone:

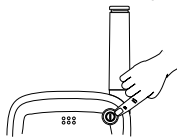
- ① Attach the battery to the phone.





- ② Connect the charger to the bottom of the phone.



- ③ To switch the phone on/ off, press ④.



To make call:

- ④ If your phone is within the network service area (if the **O** symbol appears on the display), you can make a call.
- ⑤ To make a call, key in the desired phone number (including the area code).
- ⑥ Press  to make a call.
- ⑦ Press  to end a call.

To receive a call:

- ① Press .

To correct keypresses or to clear the entire display:

- ① Press .

For more details about these and other functions, see the appropriate pages of this guide.

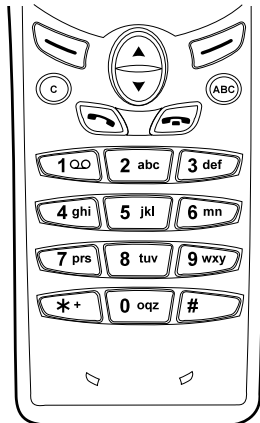
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## 1. Basic Information

### USING THIS GUIDE

The cellular phone described in this guide is approved for use in a NMT 450 network. A number of features included in this guide are called Network 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 require from your home service provider. You can then activate these functions as described in this guide. The manual activation commands for various services are not presented in this guide (e.g. using characters for activating or deactivating services). The phone, nevertheless, is capable of handling commands given in that form. For these commands, please consult with your cellular service providers. The operation of the phone requires successive key depressions; two keys are never to be pressed simultaneously.



### LIST OF KEYS

(More detailed information on the use of each key is given in the appropriate place in the manual.)

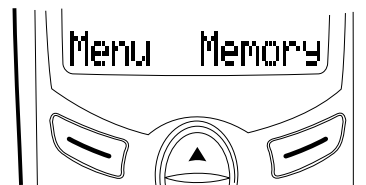
- ① Press and hold to switch the phone on or off.

- ABC Press to switch to alpha mode and key in or display letters; press again to switch back to numeric mode.
- C Press to delete characters or to clear the entire display.
- [Call Icon] Press to call a number. Press for Register Recall (NMT system feature) during a call.
- [End Call Icon] Press to end a call.
- [Up/Down Arrow] Press these keys to scroll through the memory locations and menu functions. First press the **Menu** or the **Memory** selection key and then use keys [Up Arrow] and [Down Arrow] to scroll through the menu or the memory. (Press and hold down to scroll continuously through the menu or the memory.)



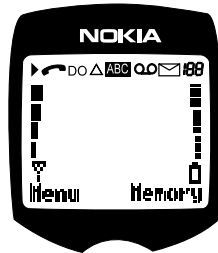
Number and character keys.

### SELECTION KEYS



Beneath the display, there are two selection keys. Their functions depend entirely on the guiding texts that appear on the display's bottom line. In standby mode, Menu allows access to the menu functions and Memory to the memory operations.


## DISPLAY INDICATORS



 and bar (left side of display)

Signal strength indicator. The bar above the symbol indicates the current signal strength at the location of your phone. The higher the bar, the better the signal in the area.

*No bar:* You are outside the coverage area and cannot make any calls.

 and bar (right side of display)

Charge level indicator. Indicates the charge level of the battery. The higher the bar, the better the battery charge.



Call Forwarding indicator. When the symbol is displayed, your incoming calls are being transferred to another number (NMT network service).



Call-indicator. A call is in progress.


D

Multifrequency tone indicator. When on, it indicates that numerical information can be sent for communication purposes. When flashing, it indicates that numerical information is being sent.

O

Service indicator. Indicates that you are in a cellular service area. If it does not appear, you are outside the service area and the network cannot serve you.




Roam indicator. Comes on when the NMT network cannot transmit calls to your phone. Press  to reregister the phone on the system, or try to make a call.

ABC

Alpha mode indicator. Shows that the phone is in alpha mode and letters can be keyed in or displayed.



Indicates that you have received a voicemail message which you can listen to by calling the voicemail centre number. The  indicator appears on the display until you call the voicemail centre number.



Indicates that an SMS message has been received. If the indicator is flashing, there is no space for new messages. For more space erase old messages by selecting the **Erase** option when you are reading messages.

188

Menu function/memory location indicator. Indicates which Menu function is active, or which memory location is currently being used. Also indicates the place that you are currently editing when writing a message.

COUNTRY CODE (e.g. FI, SV)

Indicates in which country the phone will operate. If you wish to change the code, see 'Country'.

## CHARGING A NEW BATTERY

Before you can use your phone, you must fully charge the battery. A new battery must be charged for at least 16 hours before being used for the first time. Attach the battery to the phone and connect the charger to the bottom of the phone as described on page 2.

## BATTERY INFORMATION

When the battery charge is low, the warning message *BATTERY LOW* flashes you at regular intervals.

Finally, the message *RECHARGE BATTERY* is displayed. If you do not recharge your battery, the phone switches off after a while. While charging is in progress, the battery charge bar on the display scrolls repeatedly from clear to full. When the bar stops scrolling and remains at a full bar, and a message *BATTERY FULL* appears on the display, charging is completed. If the display bar continues to scroll, charging may be temporarily disrupted (for instance, if the battery is too hot or too cold).

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

Note that a new NiMH battery achieves full performance only after two or three complete charge and discharge cycles!

For good operation times when using a NiMH battery, discharge the battery from time to time by leaving your phone switched on until it turns itself off (or by using the battery discharge facility of any approved accessory for your phone). Do not attempt to discharge the battery by any other means.

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.

NiMH battery performance will vary with the condition of the battery. The following conditions will reduce battery performance: temperature extremes, poor charging or discharging practices and improper storage.

The NiMH battery's performance is particularly limited in temperatures below -10°C and Li-Ion batteries performance is particularly limited in temperatures below 0°C. Therefore, the battery should be kept protected from the cold, e.g., in a pocket, if it is to be exposed to low temperatures for long periods.

The approximate charging times, for charging empty batteries to an 80% capacity, while using the Fast Travel Charger are:

NiMH batteries:

550 mAh 60 min.

Li-Ion batteries:

400 mAh 50 min.

1500 mAh 180 min.

A trickle charge to full 100% capacity would require a couple of hours more, but it is not necessary in normal use.

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

Note:

- Use the battery only for its intended purpose.
- Never use any charger or battery which is damaged or worn out.
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection between the + and - terminals of the battery (metal strips on the back of the battery), for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

- Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged.

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

- Do not dispose of batteries in a fire!

### SWITCHING ON/OFF

As with any other radio transmitting device, avoid unnecessary contact with the antenna when the phone is switched on.

Press  to switch the phone on /off.

When turning the phone on, it will carry out a short self-test, briefly displaying its number, or the name associated with the number (operator, dealer or your own name).

When the appropriate country code and **O** indicator appear on the display, the phone is ready for use.

A cellular phone can only make and receive calls when it is switched on.

### SIGNAL STRENGTH

The quality of your call depends on the strength of the cellular signal in your area. The phone displays current field strength as a series of bars on the left-hand side of its display screen - the more bars, the better the signal in your area.

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

### ACCESSORIES

An extensive range is available for your phone. You can select these according to your special communication needs. For availability of accessories, check with your local dealer. When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.


**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.

### CALL FORWARDING

Call transfer is an NMT system feature. Contact your system provider for further information. This feature allows you to transfer incoming calls to another telephone number.

### REGISTER RECALL FUNCTION

The NMT network may offer a service called Register Recall (three-way calling or conference call). This feature allows you to activate a second call while you are already making a call.



This function is activated with the  key. For further information, contact your local system provider as the operating instructions vary from country to country.




## 2. Basic Functions

### MAKING A CALL


- ① Key in the number (include the area code, even if you are making a local call).

If you make a mistake you can delete the last number by pressing  or clear the whole display, by pressing and holding  for half a second.

- ② Press .

The  indicator and the dialled number will appear on the display. When the number clears from the display and a tone is heard, the phone has transmitted the number.

- ③ Lift the phone to your ear, and wait until your call is answered, then speak.

- ④ When you have finished the call, press .

If the message *LOCKED* appears on the display, your phone has been locked. (see 'Security Options'). When the phone is locked, calls may be possible to the emergency number preprogrammed into your phone (e.g., 112 or some other official emergency number).

Also, calls to the numbers in memory locations 94, 95, 96, and 97 may be made and all calls may be received.

(see 'Memory')

To redial the last number called:

- ① Press  twice.

### INTERNATIONAL CALLS


Note: This function is operational only if the local network supports it. Check with the network service operator.

When calling abroad a + character can be inserted in front of the country code instead of the international access code.

For example, when calling abroad from Finland, instead of dialling

990 010 81 123 456

+ 010 81 123 456 can be used.


- ① Press the  key twice to insert a + character.

If you also store all of your domestic phone numbers with the prefix +, you need not insert the phone number with the international access codes when you wish to call these numbers from abroad.

If the network does not support this function, a message *PREFIX + CANNOT BE USED* may appear on the display. Then, the international access code must be keyed in.


### RECEIVING A CALL

When there is an incoming call, you will hear the ringing tone and the text *CALL* appears on the display. If the ringing tone has been switched off - the *SILENT SERVICE* feature has been selected for privacy or other reasons - the lights will flash instead and only a short beep will be heard (see 'Call Alert'). An easy way to select the *SILENT SERVICE* feature ON is


to press **Menu** and .


If the caller can be identified (if the network supports this function), the caller's phone number (or the name, if it is stored in the memory) appears on the display together with the text *CALLING*.

Note: This function, which enables the caller to be identified, is operational only if the local network supports it. Check with the network service operator.

If the call is diverted from another number, the  indicator appears on the right-hand side of the third display row. If the caller cannot be identified and the call is diverted, the message *DIVERTED CALL* appears on the display.

- ① Press  to take the call.

When you have finished speaking, press . If you don't answer the call, the message **1 MISSED CALL** appears on the display. If the network supports the clock function and provides the right time for the phone, the time when a call was missed or received can be seen similarly like the number of that call. To check the time:

- ① Press  to switch your phone into alpha mode.

During the call, the  indicator will remain on.

### ADJUSTING THE EARPIECE VOLUME

The volume of the earpiece can be adjusted with the toggle key on the side of the phone.




Lowest volume



Highest volume

### ANY KEY ANSWERING

The phone is equipped with an any key answering option (press any key except  to answer a call). If you receive an incoming call at the same time as you are keying in a number, the any key answering feature becomes active after the first ringing tone. Any key answering is not active when the keypad is locked.






### 1-TOUCH DIALLING

Keys 1-9 dial predefined numbers stored in memory locations 1-9. Note: before you can use the 1-Touch Dialling function, you must first store a number in one of the locations 1-9 and make sure you have switched the 1-Touch Dialling function On using the phone's Menu Facility (see Menu 4 3).

Note: store the voice mailbox number into memory location 1 (see Menu 1 4 1), if you wish to use 1-Touch Dialling function for listening your voicemail messages. The memory location 1 can be used only for listening voicemail messages when the 1-Touch Dialling function is used.

### LAST NUMBER REDIAL

The phone automatically stores the last 10 numbers (and associated names) that you have called or tried to call. To scroll the 10 numbers last called:

- ① Press  to clear the display.
- ② Press . The last number called appears.
- ③ Press  or  to scroll through the other nine last numbers called.
- ④ Press  to make a call to the number displayed.


Note: In **Menu 0 0 3** you can select (*ERASE ALL RECENT CALLS*) if you want the last numbers called to be cleared from the memory.

### KEYPAD LOCKED

The phone's keypad can be locked to prevent accidental keypresses, e.g. when the phone is in your pocket.

Note: When the keypad is locked, calls may be possible to the emergency number preprogrammed into your phone (e.g., 112 or some other official emergency number).


To lock the keypad:

- ① Press **Menu** and .

To unlock the keypad:

- ① Press **Unlock** and .

The **KEYPAD LOCKED** message appears on the display. When any key is pressed the *Press Unlock and then \** message is shown.

To answer a call when the keypad is locked, press .

During a call, the keypad is not locked, and you can operate the phone as usual. When the keypad is unlocked, the *KEYPAD ACTIVE* message appears, and the phone starts to operate in the usual way.

### **MUTING THE MICROPHONE**

The muting feature allows you to switch off the phone's microphone, so you can have a private conversation with other people during a call.


Press the **Menu** selection key and hold it down briefly to mute the microphone. The *MUTED* message is shown. Press and hold the Menu key again to unmute the microphone. *MUTE OFF* is shown. The call can then be continued in the usual way.

### 3. The Memory

The phone has 97 standard memory locations which allow you to store information as follows:

- Phone numbers of up to 30 digits each
- Names of up to 20 letters each

Numbers and letters cannot be displayed at the same time. You can switch between numerical

and alpha modes by pressing .

Memory location 99 stores the phone's own number and a welcoming message (max. 20 letters). You can change the number and edit the welcoming message (see the section 'Storing Information').


Memory location 98 holds the phone's number with a country code prefix. The location cannot be edited.

Memory location 00 is the so-called scratchpad memory (see 'Scratchpad Memory') where you can store information temporarily during a call. This 00 memory location is cleared when the phone is switched off.

Memory location 0 is for the last number called. When the phone is locked, calls may be possible to the emergency number preprogrammed into your phone (e.g., 112 or some other official emergency number).

Also, calls to the numbers in memory locations 94, 95, 96, and 97 may be made and all calls may be received.

#### KEYING IN NAMES

- ① Press . The **ABC** indicator will appear on the display indicating that the phone is in the alpha mode and that when you press a key, letters will appear instead of numbers.
- ② Select the key labelled with the letter you want. Each key is labelled with three letters, except for the MN 6 key, so press the key labelled with the letter you want once (before the **ABC** indicator flashes). If the character displayed is not the character you want, press the key again (before the **ABC** indicator flashes) and if you still don't have the

character you want, press the key a third time (before the **ABC** indicator flashes).


If you miss the letter you want, press the key repeatedly until the letter you require reappears.

Note: rapid key presses may activate other characters.

- ③ Select further letters in the same way.

You can select upper case or lower case letters by pressing and holding the key for a few seconds. Additional characters can be displayed (by repeatedly pressing the key) as follows:

1-key - ? ! 1 , . : " ' & \$ £ ( ) / % @  
 2-key A B C 2 Ä Å à AE Ç  
 3-key D E F 3 è É  
 4-key G H I 4 ì j  
 5-key J K L 5  
 6-key M N 6 Ñ  
 7-key P R S 7 ß  
 8-key T U V 8 Ü ü  
 9-key W X Y 9  
 0-key O Q Z 0 Ö Ø ò  
 #-key a blank space  
 \*-key \* +

- ④ Exit letter selection by pressing  again.

#### STORING INFORMATION

- ① Key in the area code and number and, (in the alpha mode) the name (or key in first the name and then the number).
- ② Press **Memory, Save**. The phone will ask you to specify a memory location number **SAVE IN LOCATION**.
- ③ Press **OK** if you want the information stored in the first available memory location. Otherwise, key in a memory location number.
- ④ The message **SAVED** will appear on the display, confirming that the information has been stored in the memory location specified.

If you try to store only a name or a number, the phone asks for the missing name or number. Key the required name or number in, and confirm it by pressing **Save**, **OK**. If you don't wish to have a name or number, just confirm with **Save**, **OK**.

If you try to store information in a memory location that is already being used or with a name that is already being used, the phone will display the memory location number and the *REPLACE?* message text.

If you want to replace the existing information, press **OK**.

If you do not want to replace the existing information, either press **C** or **Quit**. The information you tried to store will then reappear on the display, and you can store it in a different memory location or with a different name, as described above.

### CLEARING INFORMATION

- ① Press **Memory**.
- ② Key in the name or its first letters.
- ③ Press **Find** to get the name on the display.
- ④ Press **Options**, **Erase**. The message *ERASE ?* and the name or number and the memory location number will appear.
- ⑤ Press **Erase**. The message **ERASED** will be displayed briefly, confirming that the memory location has been cleared.

Or:

- ① Press and hold **C** to clear the display.
- ② Press **Memory**, **Save**, **Save**. The phone will ask you to specify a memory location number *Location to be erased*:
- ③ Key in the number of the memory location you want to clear and press **Erase**. The message *ERASE ?* and the name or number and the memory location number will appear.
- ④ Press **Erase**. The message **ERASED** will be displayed briefly, confirming that the memory location has been cleared.

### RECALLING INFORMATION BY MEMORY LOCATION NUMBER AND BY NAME

- ① Press **Memory**.
- ② Key in the name or its first letters.
- ③ Press **Find**. A list of names appears.
- ④ You can scroll through the list with the **▲** and **▼** keys.
- ⑤ Press **Options** to get the following options: **Move**, **Show**, **Edit**, **Erase**.
- ⑥ You can scroll through the list with the **▲** and **▼** keys.
- ⑦ Press **Show** to view the number stored with the name.

Or:

- ① Press **Memory**, **ABC**, **Find**. The phone asks you to specify the memory location with the message *Location number*:
- ② Key in the memory location number, (e.g. 2) and press **Find**. The telephone number stored in the memory location will appear on the display.
- ③ Press **ABC** if you want to check the name stored with the number.

(If no name was stored with the number, the display will be blank). Press **ABC** again if you want to return to the number display.

- ④ Call the number by pressing **☎**.

### SCANNING FOR A NUMBER

- ① To scan the entire memory, use the **▲** or **▼** keys to display the contents of the memory locations in use. If you have just recalled a memory location by number, the scanning will start from that memory location.
- ② When you find the number you want, press **☎** to make the call.

### SCANNING FOR A NAME

- ① Press **ABC**.
- ② Press **▲** to display the first and **▼** to display the last name in alphabetic order. To display the other stored names, press the arrow keys until you find the name you are looking for.

### NUMBER OF THE PHONE

To check the number of your phone:

- ① Key in **99** (memory location where the phone number is stored).
- ② Press **Memory, Find**.

### SCRATCHPAD MEMORY



In addition to its 97 permanent memory locations, the phone has one short-term memory location (00), where a telephone number (and a name) keyed in during a call is temporarily stored. The number is cleared from memory when the phone is switched off.

- ① Key in a number (or a name in alpha mode) during a call. The phone will automatically store the number or name in the scratchpad memory location when you end the call. Any information previously stored in the scratchpad memory will be lost.







To move a number from the scratchpad memory location to a permanent memory location, recall it: **00 Memory, Find**. Store the information as described in Storing Information.

(When the location 00 is not in use, the phone's **SIS** security reference code can be checked there. The reference code is used by the NMT network to register your phone.)


## 4. The Menu Facility

The menu allows you to check and change the settings for certain functions, e.g. whether they are currently switched on or off. You can scroll through the menu with the  or  keys to enter a function or to use a shortcut by pressing the **Menu** key and number of the desired menu (see instructions below).

### The Menu Method

- ① Press the **Menu** selection key.
- ② Use either  or  keys to scroll forward or backward through the list of functions until you find the one you want.
- ③ Press **Select** when you reach the function you wish to activate.
- ④ Use  or  to check the current setting of the function or to scroll through sub-menus.
- ⑤ Select the setting you wish to change with the **Select** key. Use  or  to scroll through the options.
- ⑥ Press the **OK** selection key to store the new setting in memory (the one which is shown on the dark background).

You can press the **Quit** selection key, at any time, to quit the menu function and go back to the previous Menu level.

Note: if you choose not to change any setting, you can exit the Menu function with the **Quit** or  keys.

### The Menu Shortcut

- ① Press the **Menu** selection key.
- ② Press the number of the desired menu.

For example, to enter **Menu 0**, press **Menu** and then **0**. Similarly, to enter the **submenu 0 1**, you can press **Menu** and then keys **0** and **1**.

Note: in Menu functions 0, 1, 2, 3, 4 and 6 you can enter the submenus by using the shortcut, i.e. by pressing the number of the submenu option.

See the picture on the following page for a list of menus and submenus.

Menu 0	CALL REGISTER	0 RECENT CALLS	0 DIALLED CALLS 1 RECEIVED CALLS 2 MISSED CALLS 3 ERASE ALL RECENT CALLS
		1 CALL DURATION	0 LAST CALL 1 OUTGOING CALLS 2 INCOMING CALLS 3 RESET COUNTERS
Menu 1	MESSAGES	0 READ MESSAGES 1 WRITE MESSAGES 2 LISTEN TO VOICE MESSAGES 3 RETRIEVE MESSAGES 4 MESSAGE SETTINGS	0 MESSAGE CENTRE NUMBER 1 VOICE MAILBOX NUMBER 2 ENCRYPTION KEY 3 ENCRYPTION
Menu 2	PHONE SETTINGS	0 COUNTRY 1 LIGHTS 2 KEYPAD TONES 3 LANGUAGE 4 BATTERY CARE 5 CLOCK	
Menu 3	SECURITY OPTIONS	0 PHONE LOCK 1 CHANGE LOCK CODE 2 CALL BARRING	
Menu 4	CALL SETTINGS	0 RINGING TONE 1 RINGING VOLUME 2 CALL ALERT 3 1-TOUCH DIALLING 4 AUTOMATIC ANSWER	
Menu 5	SEND DTMF TONES		
Menu 6	ALARM OPTIONS	0 COUNTDOWN TIMER 1 ALARM CLOCK	
Menu 7	PREFIX EDITOR		





## MENU FUNCTIONS

You can enter all the Menu functions described on the following pages in the same way as in examples CALL REGISTER (Menu 0) or MESSAGES (Menu 1).

### CALL REGISTER (Menu 0)



With Menu function 0, you can get information about your recent calls and their duration.

- ① Press **Menu 0** to enter the Call Register Menu.
- ② Scroll between submenus (Recent Calls and Call Duration) with the  and  keys.
- ③ Press **Select** key to enter the desired submenu.

To leave the Menu function, press **Quit**.

#### RECENT CALLS (Menu 0 0)



With Menu function 0 0 you can view the automatically stored numbers of all dialled, received and missed calls and you may choose to clear all these numbers from the phone's memory.

- ① Scroll through the submenus (Dialled Calls, Received Calls, Missed Calls, Erase All Recent Calls) with the  and  to accept the desired setting.
- ② Press **Select** to list or clear all recent calls.

To leave the Menu function, press **Quit**.

#### CALL DURATION (Menu 0 1)

With Menu function 0 1 you can check the duration of your calls and reset the call counters.


- ① Scroll through the submenus (Last Call, Outgoing Calls, Incoming Calls, Reset Counters) with the  and  keys.

Note: To reset the counters you need the four-digit security code, which is included in the sales package.

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





## MESSAGES (Menu 1)

Your phone can also be used for sending and receiving SMS messages. This function is a network service and operational only if the network supports it.


 indicates that an SMS message has been received.

### READ MESSAGES (Menu 1 0)

To read a message:



- ① Press **Menu 1 0** to enter the 'Read messages' submenu **1 0**.
- ② A new message or the last received message is shown on the display. Use the  and  keys to read the message.
- ③ With **Options** selection key you get a list (Send, Read next, Erase, Reply, Use number, Edit). Use the  and  keys to scroll through these options.
- ④ To select an option, e.g. to Erase a message, press **OK** selection key.
- ⑤ Press **Quit** to exit the function.



If you want to reply to a message use the Reply option, under **Options** selection key. You can also use the 'Use number' option to store the number in memory if you wish to reply later.

If the  indicator is flashing, there is no space for new messages. For more space, erase old messages as described above.






### WRITE MESSAGES (Menu 1 1)

To write and send a message:

- ① Press **Menu 1 1** to enter the 'Write messages' submenu **1 1**.
- ② Write the message. It can be a maximum of 160 characters.
- ③ With **Options** selection key you get a list (Save, Send, Erase). Use the  and  keys to scroll through these options.
- ④ To select an option, e.g. to Send a message, press the **OK** selection key.

- ⑤ The phone will ask for recipient's number (*Number:*).
- ⑥ Use the  and  keys if you wish to get a number from the phone's memory.
- ⑦ With the **OK** selection key the selection keys **Own** and **Other** appear on the display.
- ⑧ Press **Own** key if you want the phone to use your own message centre number, which was stored in menu 1 4 0.
- ⑨ Press **Other** if you want to key in other message centre number. This number can also be retrieved from the memory, if it was stored there.  
Note: if you use a message centre other than yours, the encryption is automatically deactivated and later activated again. (see **Menus 1 4 2 – 1 4 3**).

When writing the message you can use the following:

- the  -key to switch between numeric and alpha modes
-  -key to delete characters
-  -key to insert a space and
-  and  keys to move the cursor to the left or right.

The **IBB** indicator shows the place which you are currently editing when you are writing a message.

#### LISTEN TO VOICE MESSAGES (Menu 1 2)

With this menu function you can call your voice mailbox and listen to your voice messages.


- ① Press **Menu 1 2** to enter the 'Listen to voice-messages' submenu.

If the voice mailbox number is not stored in the phone's memory, a message **NO VOICE MAILBOX NUMBER** will appear on the display. Use submenu 1 4 1 to store the voice mailbox number.

#### RETRIEVE MESSAGES (Menu 1 3)

This menu function is needed only when you are in a country where the local network operator does not support the SMS. It allows you to retrieve your SMS messages from your own operator's service centre by placing a call to your home systems centre.

- ① Press **Menu 1 3** to enter the 'Retrieve messages' submenu.

After successful retrieval of a message, the  indicator appears on the display.

If the message **RETRIEVAL FAILED** appears on the display, you can try to retrieve messages later.

If there are no messages in the SMS service centre, the **NO MESSAGES** text appears on the display.

#### MESSAGE SETTINGS (Menu 1 4)

##### MESSAGE CENTRE NUMBER (Menu 1 4 0)

To send or retrieve SMS messages you must key in the message centre number by using this submenu. Your network operator provides you with the message centre number when you subscribe to the SMS (Short Message Service).

- ① Press **Menu 1 4 0** to enter the 'Message centre number' submenu.
- ② Key in the phone number of the message centre.
- ③ Press the **OK** selection key.

##### VOICE MAILBOX NUMBER (Menu 1 4 1)

If you wish to use **Menu 1 2** (to listen to the messages left in your voice mailbox or to clear the **OO** indicator from the display) you have to store the voice mailbox number in the phone's memory by using this submenu function.

- ① Press **Menu 1 4 1** to enter the 'Voice mailbox number' submenu.
- ② Key in the voice mailbox number provided by the local network operator.
- ③ Press the **OK** selection key.

#### ENCRYPTION KEY (Menu 1 4 2)

With this menu function you can enter the encryption key which is used during SMS. To ensure the proper functioning of the SMS, you must enter the encryption key, if your network operator provides you with one when you subscribe to the SMS.

(Note: not all operators provide a key; some use the key preprogrammed into your phone, in which case you will not need a separate encryption key).

If your operator provides you with a key:

- ① Press **Menu 1 4 2** to enter the 'Encryption key' submenu.
- ② Enter the ten-digit encryption key provided by the network operator.
- ③ Press the **OK** selection key.

If your operator has not provided you with the key and your phone uses a preprogrammed key, enter \* with Menu 1 4 2.

#### ENCRYPTION (Menu 1 4 3)



This menu function enables you to select encryption On or Off by using **Select** and the arrow keys.

### PHONE SETTINGS (MENU 2)

#### COUNTRY (Menu 2 0)

There are 18 selectable country codes in the phone's memory. If you go to another country using the NMT network and wish to use your phone there, you must select the correct country code (**FI, NO, SE, DK**, etc.).

To change the country code:

- ① Press **2 0** to enter the Country submenu.  
The phone will display the code it is currently using.
- ② Use the  and  keys to select a new code from the list.
- ③ Press **OK** to confirm a setting.

#### SETTING THE LIGHTS ON/OFF (Menu 2 1)

The phone's keypad and display are fitted with lights to make them easy to read.

#### KEYPAD TONES (Menu 2 2)

You hear a key tone each time you press a key. You can select a key tone you prefer or to turn the key tones off.

Note that when the key tones are switched off, DTMF tones can still be sent. Also note that when you have switched off the ringing tone no key tones will be heard either.

#### LANGUAGE SELECT (Menu 2 3)

You can select a language for the display texts.



#### BATTERY CARE (Menu 2 4)

You can switch the phone's battery care On or Off. When it is switched On, the battery will be prevented from charging continuously.

When the battery capacity has decreased to the shutdown level, the setting changes automatically to the **BATTERY CARE OFF** state and charging can begin again once the phone is connected to a charger.

#### CLOCK (Menu 2 5)

This menu function allows you to check the time on your phone, but only if the network supports the function. Time is shown on the third display row when the phone is in idle mode, conversation mode or when the phone's keypad is locked.

Enter **Menu 2 5** and use the  and  keys to switch the function On or Off.

### SECURITY OPTIONS (Menu 3)

#### PHONE LOCK (Menu 3 0)

The phone has an easy-to-use security system. It can be locked by using a four-digit lock code to prevent unauthorised use. If you forget your lock code, you can change it by using the **Menu 3 1** function.

Note: to change the lock code, you must know the security code supplied by your dealer. When the phone is locked, calls may be possible to the emergency number preprogrammed into your

phone (e.g. 112 or some other official emergency number).  
Also, calls to the numbers in memory locations 94, 95, 96, and 97 may be made and all calls may be received. Access to memory is also prevented.

To lock the phone:

- ① Press **Menu 3 0** to enter the PHONE LOCK submenu. The options Activate, Cancel, Status will be displayed. The phone will ask you to key in the lock code (*Enter lock code:*) if you choose options Activate or Cancel.

- ② Key in the four-digit code. It will appear on the display as four stars.

- ③ Press **OK**.

If you keyed in an incorrect code, the message **CODE ERROR** appears. To exit the function, press **C** or **Quit**. Unlocking the phone is carried out as described above.

#### CHANGE LOCK CODE (Menu 3 1)

To change the lock code of your phone:

- ① Press **Menu 3 1** to enter the Change Lock Code submenu. The phone asks you to key in the five-digit security code supplied by your dealer (*Security code:*).

- ② Key in the security code and press **OK**.

If you keyed in an incorrect code, the message **CODE ERROR** appears. After you have given the correct security code, the phone asks you to key in the new lock code (*Enter new lock code:*).

- ③ Key in the new four-digit lock code and press **OK**.

The code must only consist of digits: other characters (e.g. \*, #) and letters are not allowed. The message **SAVED** will appear to confirm that the new lock code has been set.

#### CALL BARRING (Menu 3 2)

This menu function restricts calls to certain, selected numbers, e.g. international calls. You need to know the phone's five-digit security code to activate the function.

- ① Press **3 2** to enter the Call Barring submenu.

The options Activate, Cancel and Status will appear on the display. The phone asks you to key in the security code (*Security code:*).

- ② Key in the security code and press **OK**.

- ③ The phone asks you to enter the area code or prefix of a phone number you want to be barred (*Number:*).

- ④ Key in the number and press **OK**.

- ⑤ The options Activate, Cancel and Status appear on the display.

- ⑥ Use the **▲** and **▼** keys to select the appropriate option and press **OK** to accept the option.

The option Status shows the currently barred numbers (**BARRING ACTIVE ON NUMBERS:**)

You can enter several, maximum of 30 numbers,

at the same time. Press **\*+\*** to separate the different numbers.

For example, 990\*9700 restricts the calls to any numbers beginning with 990 and 9700.

Note: when calls are barred, calls may be possible to certain emergency numbers in some networks (e.g., 112 or some other official emergency numbers).

#### CALL SETTINGS (Menu 4)

With submenus 4 0– 4 4 you can select different call settings, such as ringing tone, ringing volume, call alerting type and dialling and answering modes.

##### RINGING TONE (Menu 4 0)

The phone is provided with 12 types of ringing tones. To select the tone you like best, scroll between different ringing tone types with keys

**▲** and **▼**. Use **OK** selection key to select the ringing type you prefer.

##### RINGING VOLUME (Menu 4 1)

You will hear the ringing tone when there is an incoming call. There are 4 different levels of tone volumes you can choose from.

#### CALL ALERT (Menu 4 2)

This allows you to select the desired type of alert from the following options:

**Ring & Vibr.:** Ringing tone normal and with the vibrator.

**Ring:** Only the ringing tone is active.

**Vibrate:** Only the vibrator is active, all ringing tones are inactive.

**Silent:** All tones are turned off, only the lights blink and a message indicating a call appears on the display during an incoming call and there is a short beep. The message *SILENT* is displayed in standby mode.

Note: The vibrating options operate only when a vibra battery is used.

#### 1-TOUCH DIALLING (Menu 4 3)

You can enable the 1-9 keys to make a call to a number stored in one of those particular memory locations. When the 1-Touch Dialling is selected as On, you can call a number in memory locations 1-9 simply by pressing the desired number key.

Note: If you wish to use the 1-Touch Dialling function for listening your voice mail, you have to store the voice mailbox number into the memory location 1 and select the 1-Touch Dialling as On. Then you can call your voice mailbox number by pressing and holding number 1. You can use memory location 1 together with 1-Touch Dialling only for checking voice-mail messages.

#### AUTOMATIC ANSWER (Menu 4 4)

This function is used in connection with a headset and with the Handsfree-facility of the carkit. You can select the automatic answer to be either On/ Off with the **Select** key.

Note: if the SILENT SERVICE function is On, AUTOMATIC ANSWER function is not available.

#### SEND DTMF TONES (Menu 5)

You can transmit numeric data as a series of tones, for example, to check your answering machine.

You can either send DTMF (Dual Tone Multi Frequency) tones through the phone's DTMF tone

generator, or you can use the MFT service of the NMT system. Sending DTMF tones by the MFT service is more reliable in poor transmission conditions.

##### I Manual DTMF Dialling



- ① Make the call in the usual way (see 'Making a Call').
- ② Key in the numbers onto the display. Each number is sent directly as a DTMF tone. The length of the tone depends on how long you press the key.

##### II Manual DTMF Dialling through the MFT Service

- ① Make the call in the usual way.
- ② Press **Menu 5** to select the MFT service. The **D** indicator will appear on the display.
- ③ Key the numbers onto the display. Each number is directly sent as a DTMF tone. The **D** indicator flashes as each tone is sent.
- ④ Press the **Stop** selection key to switch off the MFT service.

##### III Automatic DTMF Dialling through MFT Service

This feature allows you to recall a number from a memory location and send it as a complete number. (Check that you have the number stored in the memory).

- ① Make the call in the usual way.
- ② Press **Memory, Find** to recall the number from the memory location. Or use the  and  keys to scroll through the memory locations until you find the right number.
- ③ Press **Quit**.
- ④ Press **Menu 5** to activate the MFT service. The number stored in the memory location is automatically sent as DTMF tones (the **D** indicator flashes during transmission.)

If the **D** indicator remains on after the transmission, use the **Stop** selection key to return to normal operation.

You cannot speak into the phone when the MFT service is on. Even if the keytones are turned off, the DTMF tones can still be sent.

### Placing a Pause between DTMF Tone Strings.

When you store the DTMF numbers in the memory, you can add pause characters in the middle of the string of digits. It may be that your answering machine requires a pause between your password and the code for "play messages". To create a pause of 2.5 seconds in the string, press the **[\*#]** key three times (shown as *p* on the display).

## ALARM OPTIONS (Menu 6)

### COUNTDOWN TIMER (Menu 6 0)

This menu function is a personal reminder. After a certain period of time, determined as described in steps 1-4, you will hear an alerting tone and the message *COUNTDOWN TIME UP!* appears on the display.

To set the countdown timer:

- ① Press **Menu 6 0**. Activate, Cancel and Status will appear on the display.
- ② Press **OK** to select an option. The message 'Set timer.' appears.
- ③ Use the number keys to set the desired countdown time.
- ④ Press **OK** to accept the set countdown time.

To stop the phone alerting and to clear the message from the display after the countdown time is up:

- ① Press the **OK** key.

With the 'Status' option, you can check if the timer alarm is set and how much countdown time is left.

### ALARM CLOCK (Menu 6 1)

You can set the alarm on your phone, if it gets the right time from the local NMT 450. To set the alarm:

- ① Press **Menu 6 1**. Activate, Cancel and Status will appear on the display.
- ② Press **OK** to select an option. The message 'Set alarm time.' appears.
- ③ Use the number keys to set the desired alarm

time.

- ④ Press **OK** to accept the set time.

To stop the phone alerting and to clear the message *ALARM!* from the display after the alarm time is up:

- ① Press the **OK** key.

With the 'Status' option, you can check if the timer alarm is set and what time will the alarm time be up.

If the network does not provide the time to your phone, a message *TIME NOT AVAILABLE* appears on the display when you try to set the alarm time.

Note: the alarm time will be stored into phone's memory and if the ALARM CLOCK function is activated, the phone will alert again at the same time next day.

## PREFIX EDITOR (Menu 7)

A number prefix can be added with the front editor, which enables the user to add numbers to the beginning of the phone number. Numbers will be modified starting at the cursor location.

- ① Recall number from shortcode memory location: Press **Memory**, **Find**.
- ② Press **Quit**.
- ③ Start the front editor by pressing **Menu 7**.
- ④ Use the **[C]** key to delete the numbers from the beginning of the displayed number.
- ⑤ Add the desired numbers by keying them onto the display.

If you leave the Menu function with the **Quit** key, the display will be cleared. The **OK** key will return to the normal editing mode.

## CARE AND MAINTENANCE

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

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

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.

## IMPORTANT SAFETY INFORMATION

### Traffic Safety

Do not use a hand-held telephone while driving a vehicle. If using a hand-held phone, park the vehicle before conversing. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

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

Remember, road safety always comes first!

### Operating Environment

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

Operation of any radio transmitting equipment, including cellular phones, may interfere with the functioning 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 refuelling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

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 a lack of protection from radio signals. Check regularly that all cellular phone equipment in your vehicle is mounted and operating properly.

Switch off your cellular phone 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 telephone services for the offender, or legal action or both.

## EMERGENCY CALLS


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 phone for essential communications (e.g. medical emergencies). Remember, to make or receive any calls the phone must be switched on and in a service area with adequate cellular signal strength.

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

To make an emergency call:

- ① If the phone is not on, switch it on.
- ② Press and hold the  key for several seconds to ready the phone for calls.
- ③ Key in the emergency number for your present location (e.g. 112 or some other official emergency number).



Emergency numbers vary by location.

- ④ Press the  key.

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

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

## TROUBLESHOOTING

If the power does not come on or stay on: Make sure the battery is properly installed in the phone. Make sure the contacts are clean on the battery and the charging stand. The battery charge may be too low for operation. Listen for the low battery warning tones. If the power comes on but the phone does not work: check the  and  indicators; you might be out of the cellular service range.