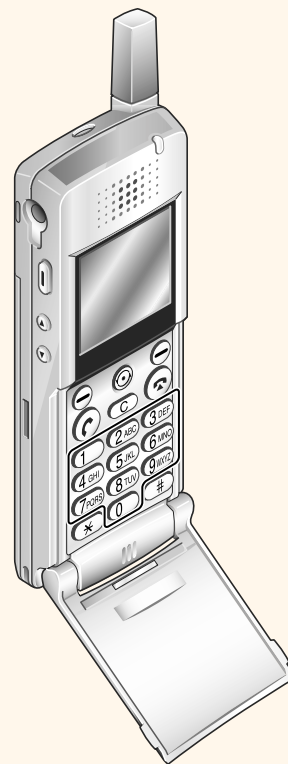




**TDMA MOBILE
TELEPHONE
STH-N270**

Draft Version



Printed in Korea

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World Wide Web
<http://www.samsungmobile.com>

FCC RF EXPOSURE INFORMATION

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations using the optional belt-clip/holster placed 0.7 inches (1.8cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.7 inches (1.8cm) must be maintained between the user's body and the phone, including the antenna, whether extended or retracted. The use of third-party belt-clips/ holsters with no metallic components that provide the minimum separation distance of 0.7 inches (1.8cm) can be used to satisfy FCC RF exposure requirements. The use of non-tested accessories or other body-worn operations may not comply with FCC RF exposure requirements and should be avoided. Contact your local dealer for optional accessory items.

Vehicle Mounted External Antenna (optional, if available.)

A minimum separation distance of 7.9 inches (20cm) must be maintained Between a person and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

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Important Safety Precautions

Read these simple guidelines. Failure to comply with them may be dangerous or illegal.

For more detailed safety information, see Safety Information on page 96.

Road safety comes first

Do not use a hand-held phone while driving; park the vehicle first. Remember that in some countries, it is illegal to use a hand-held phone while driving.

Switch off when refueling

Do not use the phone at a refueling point (service station) or near fuels or chemicals.

Switch off in aircraft

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

Respect special regulations

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 (in a hospital for example).

Interference

All mobile phones may be subject to radio interference, which may affect their performance.

Unpacking



Qualified service

Only qualified service personnel should repair cellular equipment. Use only approved accessories and batteries.

Use sensibly

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

Emergency calls

Ensure the phone is switched on and in service.
Enter the emergency number (112 or other official emergency number) and press the  key. Give your location. Do not end the call until given permission to do so. End the call by closing the flip cover or pressing the  key.

IMPORTANT! Use only SAMSUNG-approved accessories.

The use of any other power accessory will invalidate any approval or warranty applying to the phone, and may be dangerous.

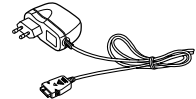
When you disconnect the power cord of any accessory, grasp and pull the connector, not the cord.

Your package contains the following items.

Handset



Travel Charger



Battery



Hand Strap



User's Manual



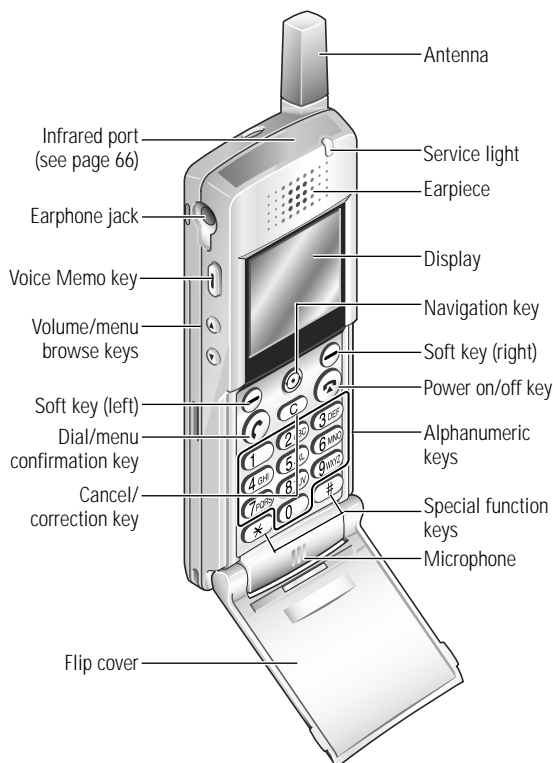
In addition, you can obtain the following accessories for your phone from your local SAMSUNG dealer:

- Desktop charger
- Hands-free kit
- Standard battery
- Cigarette lighter adapter
- Earphone
- Leather case


Your Phone

Phone Layout


The following illustrations show the main elements of your phone.




Key Description

- 

(soft keys)


Perform the functions indicated by the text above them (in the bottom line of the display).
- 

In the menu facility, scroll through the menu options and phonebook memory.

When held down in idle mode, enters the Read Message menu (2.2).
- 


Deletes characters from the display.

In the menu facility, returns to the previous menu level.

When held down for more than two seconds in idle mode, quickly enters or exit the Silent mode.
- 









Makes or answers a call.

In idle mode, recalls the last number dialed.

In the menu facility, selects a menu function or stores information that you have entered (such as a name) in the phone.
- 

Ends a call. Also switches the phone on and off when pressed and held.

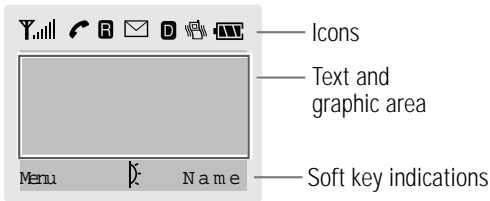
In the menu facility, returns to the idle mode and cancels your input.

Key	Description
  	Enter numbers, letters and some special characters.
 	Enter special dial characters. Also use these keys for various purposes in different functions.
	(on the side of the phone) <i>In idle mode</i> , records a voice memo when pressed and held down.
 	(on the side of the phone) <i>During a call</i> , adjust the earpiece volume. <i>In idle mode with the flip cover open</i> , adjust the key volume. <i>In the menu facility</i> , scroll through the menu options and phonebook memory.

Display

Display Layout

The display comprises three areas.



Area	Description
First line	Displays various icons (see page 12).
Middle lines	Display messages, instructions and any information that you enter (number to be dialed, for example).
Last line	Shows the functions currently assigned to the two soft keys.

Icons

Icon	Description
	Shows the received signal strength. The greater the number of bars, the better the signal strength.
	Appears when a call is in progress.
	Appears when you are out of service area.
	Appears when you are out of your home area and have registered with a different network (when travelling in other cities and countries, for example).
	Appears when a new text message has been received.
	Appears when the phone is in digital mode.
	Appears when the silent mode is active.
	Shows the level of your battery. The more bars you see, the more power you have left.
	Indicates that you have activated the Infrared feature to communicate with an IrDA-compliant device to send or receive data/fax (for further details, see page 66).
	Appears when a new voice mail message has been received.
	Appears when you set the mute mode.

Backlight

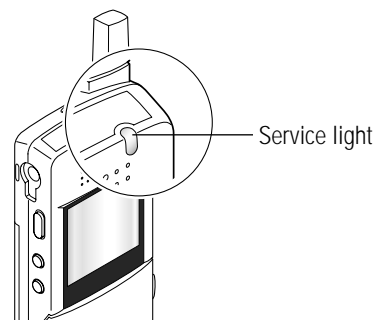
The display is illuminated by a backlight. When you press any key, the backlight illuminates. It turns off if no key is pressed within a given period of time, depending on the **Backlight** option set in the **Phone Settings** menu.

To specify the length of time for which the backlight is active, set the **Backlight** menu option (4.4); see page 70 for further details.

Service Light

The service light is in the top right-hand corner of the phone. It flashes when services are available on the phone.

To activate or deactivate use of the service light, set the **Service Light** menu option (4.5); see page 70 for further details.

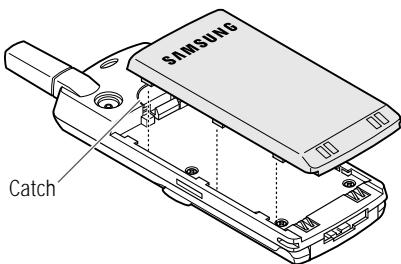


Getting Started

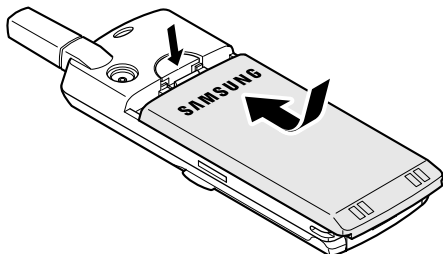
Installing the Battery

To Install the Battery


1. Place the battery on the back of the phone with the top of the battery about a quarter of an inch from the catch so that the battery engages with the slots molded into the body.

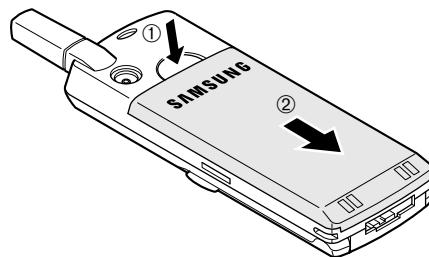


2. With the catch pressed and held down, push the battery toward the top of the phone until it snaps into place.



To Remove the Battery

1. If necessary, switch off the phone by holding down the  key until the power off graphic begins to play.
2. Remove the battery. To do so:
 - ① Push and hold down the catch above the battery on the back of the phone and
 - ② slide the battery down and lift it away.



Charging a Battery

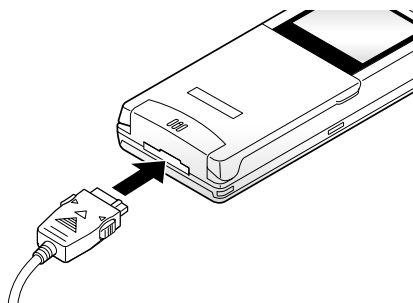
Your phone is powered by a rechargeable Li-Ion battery. A travel charger is provided with your phone. Use only approved batteries and chargers. Ask your local SAMSUNG dealer for further details.

The phone can be used while the battery is charging.

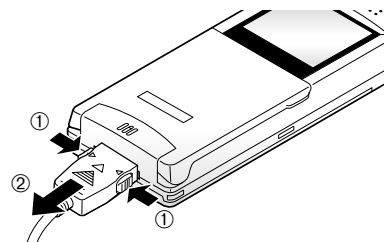
Note: You must fully charge the battery before using your phone for the first time. A discharged battery is fully recharged in approximately 200 minutes.

Charging a Battery by a Travel Charger

1. With the battery in position on the phone, connect the lead from the travel charger to the jack on the bottom of the phone.



2. Connect the charger to a standard AC wall outlet.
3. When charging is finished, disconnect the charger from the power outlet and remove it from the phone by squeezing the two tabs on the lead (①) and unplugging the lead (②).




Low Battery Indicator

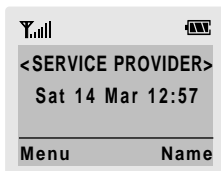
When the battery is weak and only a few minutes of talk time remain, you will hear a warning tone and a message will be repeated at regular intervals on the display:




When the battery becomes too weak for the phone to operate, it switches off automatically.

Switching the Phone On/Off

1. Open the flip cover.
2. Hold down the  key for more than one second to switch the phone on.
3. The phone searches for your network and when it finds it, the idle screen, illustrated below, is displayed.



Note: The display language is factory set to English. To change the language, use the **Language** menu option (4.10); for further details, refer to page 72.

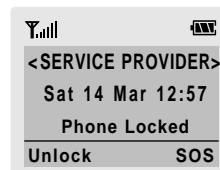
4. When you wish to switch the phone off, hold down the  key for more than two seconds.

Locking Your Phone

You can lock your phone to protect the phone against unauthorized use. When the phone is locked, you cannot operate the phone until you enter the lock code.

To lock your phone:


Press and hold down the **#** key for more than two seconds. "Phone Locked" appears on the idle screen.



To unlock the phone:


Press the **Unlock** soft key and enter the lock code, then press the **OK** soft key. Your phone's lock code is preset at the factory to 00000000. For further details on the lock code, see page 81.

Even when the phone is locked, you can place an SOS call to one of the emergency numbers stored in the SOS Call List (6.4). See page 83 for further details.

To place an SOS call, press the **SOS** soft key, select the desired emergency number using the  key and press the **Yes** soft key.


General Functions

Making a Call

When the idle screen is displayed, key in the area code and phone number and press the  key.

Note: If you have set the **Auto Redial** menu option (4.6) to **ON** (see page 71) and the person called does not answer or is already on the phone, the number is redialed automatically up to ten times. If the network answers the call after ten rings, the phone does not redial.

Making International Calls

1. Press and hold down the **0** key.
The + character appears.
2. Key in the country code, area code and phone number and press the  key.

Correcting the Number

To clear...

The last digit displayed


The whole display

Then...

Press the **C** key.

Hold down the **C** key for more than one second.

Ending a Call



When you have finished your call, briefly press the  key.

Making a Call from the Phonebook

You can store the names and phone numbers called regularly in the phone memory, called the phonebook. You then simply select the required name to recall the associated number. For further details on the Phonebook feature, refer to page 32.

Redialing the Last Number

The phone stores the last 10 numbers dialed. To recall any of these numbers, proceed as follows.

1. If you have typed any characters on the display, clear the display by holding down the **C** key for more than one second.
2. Press the  key to display the last number dialed.
3. Use the  key to scroll through the numbers until the required number is displayed.

4. To...

Dial the number displayed

Edit the number displayed

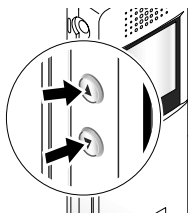
Then...

Press the  key.

- Press the **Edit** soft key.
- Change the number as required, referring to Correcting the Number for further details (see opposite).

Adjusting the Volume

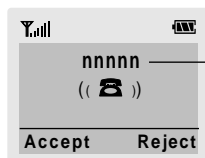
During a call, if you want to adjust the earpiece volume, use the **„** and **‗** keys on the left side of the phone. Press **„** to increase and **‗** to decrease the volume.



In idle mode with the phone open, you can adjust the key volume using the **„** and **‗** keys.


Answering a Call

When somebody calls you, the phone rings and the phone animation plays in the middle of the screen.




Caller's name or number

If the caller can be identified, the caller's phone number (or name if stored in your phonebook) is displayed. If the caller cannot be identified, only the phone animation plays

1. If necessary, open the phone. Press the  key or the **Accept** soft key to answer the incoming call.

Notes:

- To reject an incoming call, press the **Reject** soft key.
- If the **Active Flip** menu option (4.7) is set to **Enable**, you do not need to press any key. You can answer the call simply by opening the phone (see page 71).

2. End the call by closing the phone or pressing the  key.

Note: You can answer a call while using the phonebook or menu features.

Viewing Missed Calls

If you are unable to answer a call for any reason, you can find out who was calling you, provided that this service is available. In this way, you can call the person back, if necessary.

The number of missed calls is displayed on the idle screen immediately after the call was missed.

To view the missed call immediately, proceed as follows.

1. If the phone is closed, open the flip cover.

2. Press the **View** soft key.

The number corresponding to the most recent missed call is displayed, if available.

3. **To...** **Then press the...**


Scroll through the missed calls  key.

Call the number displayed  key.

Edit or delete a missed call number **Options** soft key (see opposite).

Editing a Missed Call Number

Note: If the number corresponding to the missed call is not available, the **Edit** option is not displayed.


1. Press the **Options** soft key.
2. If necessary, press the  key to highlight the **Edit Number** option.
3. Press the **Select** soft key.
4. Change the number as required.


5. **To...** **Then press the...**

Call the number  key.

Store the number **Save** soft key and enter the name and location required (for further details, refer to page 32).


Deleting a Missed Call

1. Press the **Options** soft key.
2. If necessary, press the  key to highlight the **Delete** option.
3. Press the **Select** soft key.

You can press the  key at any time to exit the Missed Call feature.

Note: You can access the Missed Call feature at any time by selecting the **Missed Calls** menu option (1.1); for further details, see page 52.

Quick-switching to Silent Mode

You can quickly switch your phone to silent mode with a touch of a key. Press and hold the **C** key until the  icon and **Silent Mode** appears in display. Your phone goes to silent mode immediately.

In silent mode, your phone switches the sound settings as following:

alert type	vibration
keypad tone	off
message tone	light only
error tone	off



Press and hold the **C** key again to exit silent mode.

This feature is convenient when you are in a hurry to mute the phone sound, such as when in a theater.

Recording a Voice Memo (???)

Your phone can record up to 5 voice memos. Each voice memo can be up to one minute in length. When recording, a 60-second timer displays and an alert sounds to indicate when recording time expires.

To Record a Voice Memo

To record a voice memo, press and hold the  key on the left side of the phone. The message “**Recording**” displays, along with the timer. To stop recording, press the  key again.


The following options for the current voice memo becomes available:

Add Label: allows you to add a label for the memo you have just recorded. Enter a proper name up to 12 digits using the keypad. If you do not add a label, the recorded date and time will be used to identify the memo. If you make a call and record the conversation, the phone number is saved as the label when you do not add a label. If you record the conversation which is held by someone's calling and do not enter a label, **No Label** is saved as the label.

Continue: allows you to continue recording the memo.

Erase: allows you to erase the memo you have just recorded.

To Review a Voice Memo

To review the voice memo you recorded, press the  key on the left side of the phone in idle mode. Your phone plays back all memos recorded, starting with the latest memo. The screen displays the label if you have entered one. If not, the screen displays the date and time when the memo was recorded, the phone number or **No Label**. For more details, see ‘**Add Label**’ above. While the memos display, the following options are available.


Replay: plays the current memo once again.

Erase: erases the memo currently being played.

Next Memo: skips to the next memo.

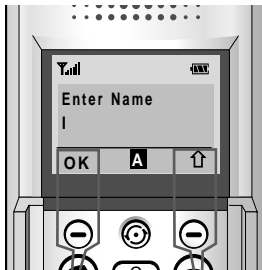
Prev Memo: skips to the previous memo.

Selecting Functions and Options

Your phone offers a set of functions that allow you to customize your phone. These functions are arranged in menus and sub-menus, accessed via the two soft keys marked . Each menu and sub-menu allows you to view and alter the settings of a particular function.

The roles of the soft keys vary according to the current context; the label on the bottom line of the display just above each key indicates its current role.






Example:



Press the left soft key to save the name entered.

Press the right soft key to switch between upper case, lower case and numeric characters.

To view the various functions/options available and select the one required, proceed as follows.

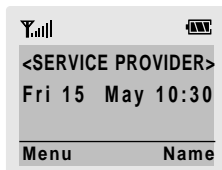
- | | |
|---|---|
| 1. Press the appropriate soft key. | |
| 2. To... | Then press the... |
| Select the: | Select soft key. |
| • Function displayed | |
| or | |
| • Option highlighted | |
| View the next function or highlight the next option in a list |  key or  key on the left side of the phone. |
| Move back to the function or option in a list |  key on previous the left side of the phone. |
| Move back up one level in the structure |  soft key or C key. |
| Exit the structure without changing the settings |  key. |

In some functions, you may be asked for a lock code or security code. Enter the required code and press the **OK** soft key.

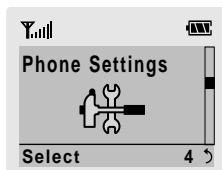
Note: When you access a list of options, your phone highlights the current option. If, however, there are only two options, such as On/Off or Enable/Disable, your phone highlights the option that is not currently active, so that you can select it directly.

Example: Setting the Display Language

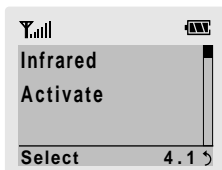
1. When the idle screen is displayed, press the **Menu** soft key to enter the menu facility.



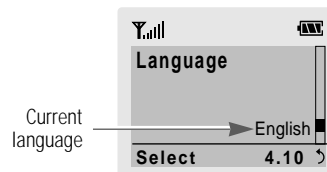
2. Scroll through the menus until you reach the **Phone Settings** menu, by pressing the **Up** key.



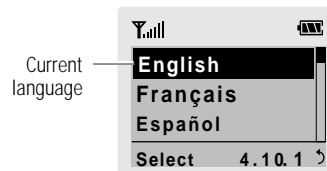
3. To select the **Phone Settings** menu, press the **Select** soft key.



4. Scroll through the sub-menus until you reach the **Language** sub-menu, by pressing the **Up** key.



5. To view the languages available, press the **Select** soft key. The current setting is highlighted.



6. Scroll through the list of languages until the appropriate one is highlighted, by pressing the **Up** key.
7. Press the **Select** soft key to confirm your selection.
8. Press the **C** or **Right** soft key twice to exit the menu structure.

Phonebook


The Phonebook allows you to store frequently used phone numbers and the associated names in your phone to make it easy for you to make a call without having to remember or enter the phone number. You can store up to 250 (1 ~ 250) numbers.

Storing a Phone Number with a Name

As soon as you start to enter a number, **Save** appears above the left soft key to allow you to store the number in the phonebook.


1. Key in the number to be stored.

Note: If you make a mistake while entering a number, correct it using the **C** key. For further details, refer to page 20.

2. When you are sure that it is correct, press the **Save** soft key.
3. Select a label by pressing the  key, and press the **Save** soft key.


The available labels are: **Home, Office, Mobile, Pager, Fax** and **No type**.

4. Enter the corresponding name. For information on how to enter a name, see opposite.
5. When you are satisfied, press the **OK** soft key.
The phone now prompts you to select a location in the phone memory for you to save the number and name.

6. Enter your preferred location by pressing the number keys.
7. Press **OK** to store the name and number.
8. Press the  key to return to the idle screen.

If you want to make a call to the number, press the **Call** soft key. And if you want to access the Phonebook options, press the **Options** soft key.

Entering a Name

1. **To select...** **Then press the  soft key until...**
 - Upper case characters **A** is displayed.
 - Lower case characters **a** is displayed.
 - Numbers only **1** is displayed.
2. Press the key labeled with the required letter:
 - Once for the first letter
 - Twice for the second letter
 - And so on

Key	Characters in the Order Displayed	
	Upper Case	Lower Case
1	Space . 1 ! ? & i ¸ \$	Space % @ _ £ \$ ¥ ¤ \$
2	A B C 2 Å Ä Ç Γ	a b c 2 à á â æ Γ
3	D E F 3 É Δ Φ	d e f 3 è é Φ
4	G H I 4 Θ Ψ	g h i 4 ì Ψ
5	J K L 5 Λ	j k l 5 λ
6	M N O 6 Ñ Ò Ó	m n o 6 ñ ò ó
7	P Q R S 7 Π Σ Ξ	p q r s 7 β Σ Ξ
8	T U V 8 Ù ú	t u v 8 ù ú
9	W X Y Z 9 Ω	w x y z 9 Ω
0	0 , : ; ' " / =	- + () * # < >

3. Select the other letters in the same way.

Note: The cursor moves to the right when you press a different key. When entering the same letter twice (or a different letter on the same key), just wait for a few seconds for the cursor to move right automatically, and then select the next letter.

Speed Dialing by Memory Location

Once you have stored phone numbers in the phone book memory, you can dial easily whenever you want.

To speed dial the desired number:

For the 1-digit memory location number (1 through 9), press and hold down the appropriate digit.

For the 2 or more-digit memory location number (10 through 250), press first digit(s) briefly and hold down the last digit.

Note: If you enter the location number, then press the **#** key, your phone displays the details on the entry, such as name, number, location number and label. If you have stored more than one number for a name, scroll through the entry by pressing the **#** key repeatedly.


Phonebook Options

When storing or viewing a number in the phonebook, **Options** appears above the left soft key to allow you to access the phonebook options, described in the following paragraphs.

Accessing the Options

To access the various phonebook options, proceed as follows.

1. Press the **Options** soft key. The first available option is highlighted.
2. **To...** **Then press the...**

Select the highlighted option	Select soft key.
Highlight a different option	 key one or more times until the required option is highlighted.

Add Number

This option allows you to place more than one number in one Phonebook location labeling each of the numbers. Note that you can only use each label one time for each stored name. For example, you can only have one number labeled Work for a name entry.

New Name

This option allows you to store a phone number with a new name. For information on storing a number, see page 32.

Change Name

This option allows you to change the name for the number. Clear the old name pressing the **C** key and enter a new name. For information on entering a name, see page 33.

Change Number

This option allow you to change the number. Clear the old number by pressing the **C** key and enter a new number.

Change Type

This option allows you to change the label type of a stored number. Note that you can only use each label one time for each stored name. For example, you can only have one number labeled Work for a name entry.

Erase Number

This option allows you to erase a stored number. If you saved two numbers in a name, only the currently selected number will be erased. You are asked to confirm that you wish to erase the number by pressing the **OK** soft key.

Erase Name

This option allows you to erase a name stored in the phonebook so that all numbers in the name is erased. You are asked to confirm that you wish to erase the name by pressing the **OK** soft key.

Move

This option allows you to move a phonebook number to another location. When prompted, enter the location number which you are moving the number to, and press the **OK** soft key.

Caller Group

This option allows you to set the number as a member of the caller group. For more details on Caller Group, see page 39.

Set Key Number



This option allows you to set the selected number as a speed dial number for the entry if it has more than one number.

Searching for and Dialing a Number in the Phonebook

1. When the idle screen is displayed, press the **Name** soft key. You are asked to enter a name.
2. Enter the start of the name that you want to find and press the **Search** soft key.

Note: You can also scroll through the phonebook from the beginning by pressing the **Search** soft key directly.

The phonebook entries are listed, starting with the first entry matching your input. This entry is also highlighted.

- | | |
|--|--|
| 3. To... | Then press the... |
| View the highlighted entry | View soft key. |
| Select a different entry |  key one or more times until the required entry is highlighted. |
| Look for a name starting with a different letter | Key labeled with the required letter. |
4. Once you have found the required entry, press the  key to dial the number.


Name Options

While entering a name for searching, you can see the **Option** soft key with the **Search** soft key. This key allows you to enter the various options. See next page for details on each of the options.

Accessing the Options

To access the various phonebook options, proceed as follows.

1. Press the **Options** soft key. The first available option is highlighted.

- | | |
|-------------------------------|---|
| 2. To... | Then press the... |
| Select the highlighted option | Select soft key. |
| Highlight a different option |  key one or more times until the required option is highlighted. |

New Name

This option allows you to create a new entry in the Phonebook. For details on storing a phone number, see page 32.

Caller Group

You can set the phone to ring in a specific way and display a preselected graphic icon when a particular person calls you. To do so, you must:

- Define your caller groups
- Assign the numbers in the phonebook to the appropriate group

Defining a caller group

Select the group to be defined and set the appropriate options. The following options are available.

Call ring tone: allows you to select the ring tone to be used when you receive a voice phone call from a person in the group.

SMS tone: allows you to select the ring tone to be used when you receive a text message from a person in the group.

Graphic: allows you to select the graphic icon to be displayed when you receive a call from a person in the group.

Group Name: allows you to assign a name to the group; for further details on how to enter characters, refer to page 33.

Assigning numbers to a group

1. View the required number in the phonebook.
2. Press the **Options** soft key.
3. Select the **Caller Group** option.
4. Select the required group.

To remove a number from a group, select the **No Group** option.

Own Number

This feature allows you to:

- Assign a name to your own phone number
- Edit the names and numbers

This function is a memory aid, which you can use to check your own phone number if you need to do so.

To save your own phone number:

1. Press the **View**, then **Edit** soft key.
2. Enter the name you desire, then press **OK** soft key.
For details on entering a name, see page 33.
3. Enter your phone number, then press **OK** soft key.

Memory Status

You can check how many names and numbers are stored in the Phonebook .

Erase All

This option allows you to erase all of the Phonebook entries.

When a confirmation appears, press the **Yes** soft key to erase all Phonebook entries. If you do not want to erase, press the **Cancel** soft key.


In-Call Options

Your phone provides a number of control functions that you can use during a call.


Putting a Call on Hold

You can make another call while you have a call in progress if this service is supported by the network. Of these two calls, one is active and the other is on hold and you can swap between the calls.

To make a call while you have a call in progress, proceed as follows.

1. Key in the phone number that you wish to dial or look it up in the phonebook.
2. Press the  key to dial the second call.
The first call is automatically put on hold.

To swap between the two calls, simply press the **Swap** soft key.


When you have finished, end each call normally by pressing the  key.

Switching the Microphone Off (Mute)

You can temporarily switch your phone's microphone off, so that the other party cannot hear you.


Example: You wish to say something to another person in the room but do not want the other party to hear you.

To switch the microphone off temporarily, proceed as follows.

1. Press the **Options** soft key.
2. If necessary, press the  key to highlight the **Mute** option.
3. Press the **OK** soft key.

Your correspondent can no longer hear you.

To switch the microphone back on, proceed as follows.

1. Press the **Options** soft key.
2. If necessary, press the  key to highlight the **Unmute** option.
3. Press the **OK** soft key.

Your correspondent can hear you again.


Muting/Sending Key Tones

These options allow you to turn the key tones off or on. If the **Mute keys** option is selected, your phone does not transmit the key tones. It allows you to press keys without hearing annoying key tones during a call.

Note: To communicate with answering machines or computerized telephony systems, the **Send keys** option must be selected.

Searching for a Number in the Phonebook

You can search for a number in the phonebook during a call.

1. Press the **Options** soft key.
2. Press the  key to highlight the **Phonebook** option.
3. Press the **OK** soft key.
The phonebook entries are listed.
4. Enter the name that you wish to find.

If you enter the start of the name, the phonebook entries are listed, starting with the first entry matching your input. The entry is also highlighted.

5. To view the highlighted entry, press the **View** soft key.

For a more detailed description of the Phonebook feature, refer to page 32.

Using the SMS Service

If you receive an SMS (Short Message Service) message during a call, the message icon () flashes in the display. The SMS Service option enables you to use this feature.

Read Messages: allows you to read the messages that you have received.


Write Messages: allows you to write a message.


For further details on the SMS service, refer to page 54.

Answering a Second Call

You can answer an incoming call while you have a call in progress, if this service is supported by the network and you have set the **Call Waiting** menu option (7.2) to **Activate** (see page 85). You will be notified of an incoming call by a call waiting tone.

To answer a call while you have a call in progress, proceed as follows.


1. Press the  key to answer the incoming call.
The first call is automatically put on hold.
2. To switch between the two calls, press the **Swap** soft key.



To end a held call, press the **Options** soft key and select the **End Held Call** option.
3. To end the current call, press the  key.

Making a Conference Call

You can conduct conference calls with two separate parties at the same time. A conference call is a network service. For more information, contact your service provider.

Setting up the Conference Call

1. Call the first participant in the normal way.
2. Press the **Options** soft key and select the **Join** option. Then, call the second participant by the normal way.
3. When the second person answer, press the  key to merge the calls.







Note: The first call remains held until you press the  key
4. End the conference call by closing the phone or pressing the  key.

Using the Menus




The phone offers a range of functions that allows you to tailor the phone to your needs. These functions are arranged in menus and submenus.

The menus and submenus can be accessed by scrolling or by using the shortcuts.


Accessing a Menu Function by Scrolling

1. In idle mode, press the **Menu** soft key to access the menu facility. Scroll with the  key (or the  or  keys on the left side of the phone) to reach the desired main menu, e.g. **Phone Settings**. Press the **Select** soft key to enter the menu.
2. If the menu contains any submenus: for example, **Backlight**, find the one you want by scrolling with the  key (or the  or  keys on the left side of the phone). Press the **Select** soft key to enter the submenu.


If the menu you selected has submenus, repeat this step.

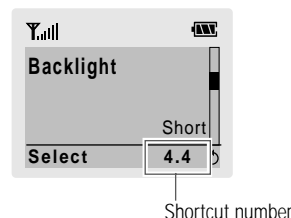
3. Scroll with the  key (or the  or  keys on the left side of the phone) to find the setting of your choice. Press the **OK** soft key to confirm the chosen setting.

Notes:

- You can return the previous menu level by pressing the **C** key.
- You can exit the menu without changing the menu settings by pressing the  key.

Accessing a Menu Function by Using its Shortcut

The menu items (menu, submenus and setting options) are numbered and can be accessed quickly by using their shortcut number. The shortcut number is shown in the right-bottom next to the  soft key on the display..



1. In idle mode, press the **Menu** soft key.
2. Within three seconds, key in the first digit of the shortcut number. Repeat this for each digit of the shortcut number.

Example: Setting the **Backlight** option to **Short**

Press the **Menu** soft key, and key in **4, 4, 2**.

Menu for entering the menu, **4** for **Phone Settings**, **4** for **Backlight**, **2** for **Short**.

Note: The numbers assigned to each menu function are indicated on the list on page 48. They may not match the menu number on the phone.

List of Menu Functions

The following illustration shows the menu structure available and indicates the:

- Number assigned to each option
- Page on which you can find a description of each feature

1. Call Records

- 1.1 Missed Calls
- 1.2 Received Calls
- 1.3 Dialed Calls
- 1.4 Call Time
 - 1.4.1 Last Call Time
 - 1.4.2 Total Call Time
 - 1.4.3 Reset Timers

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2. Messages

- 2.1 Voice Mail
 - 2.1.1 Connect to Voice Server
 - 2.1.2 Voice Server Number
- 2.2 Read Messages
 - 2.2.1 New Inbox
 - 2.2.2 Old Inbox
 - 2.2.3 Outbox
- 2.3 Write Messages
- 2.4 Preset Message List
- 2.5 Setup

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3. Sound Settings

- 3.1 Ring Volume
- 3.2 Ring Tone
- 3.3 Alert Type
- 3.4 Keypad Tone
- 3.5 Message Tone
- 3.6 Error Tone
- 3.7 Minute Minder
- 3.8 Connect Tone
- 3.9 Melody Composer

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4. Phone Settings

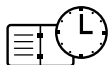
- 4.1 Infrared Activate
- 4.2 Greeting Message
- 4.3 Calling Card
- 4.4 Backlight
- 4.5 Service Light
- 4.6 Auto Redial
- 4.7 Active Flip
- 4.8 Contrast
- 4.9 Slide Menu
- 4.0 Language
- 4.* Reset Settings

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5. Organizer

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- 5.1 Calendar
- 5.2 To Do List
- 5.3 Time & Date
 - 5.3.1 Set Time
 - 5.3.2 Set Date
 - 5.3.3 World Time
 - 5.3.4 Format
- 5.4 Alarm
 - 5.4.1 Once Alarm
 - 5.4.2 Daily Alarm
 - 5.4.3 Weekly Alarm
 - 5.4.4 Remove Alarm
 - 5.4.5 Autopower
- 5.5 Calculator

6. Security

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- 6.1 Change Lock code
- 6.2 Change Security code
- 6.3 Call Restriction
 - 6.3.1 restrict all outgoing call
 - 6.3.2 restrict all incoming call
 - 6.3.3 restrict outgoing call
- 6.4 SOS Call List

7. Network Services

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- 7.1 Call Diverting
 - 7.1.1 Divert Always
 - 7.1.2 Busy
 - 7.1.3 No Reply
 - 7.1.4 Unreachable
 - 7.1.5 Cancel All
- 7.2 Call Waiting
- 7.3 Network Selection
 - 7.3.1 Automatic
 - 7.3.2 Manual
 - 7.3.3 New Search
- 7.4 Voice Privacy
- 7.5 Send ID
- 7.6 NAM Selection
- 7.7 Set Service Code
 - 7.7.1 Call Diverting
 - 7.7.2 Call Waiting

8. Games

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- 8.1 Casino
- 8.2 Roulette
- 8.3 Black Jack
- 8.4 Sniper
- 8.5 Snake
- 8.6 Mole
- 8.7 Othello

Call Records

Via this menu, you can view the phone calls:

- Missed
- Received
- Dialed

The number and name (if available) are given, together with the date and time at which the call was made.

Note: Your phone can keep up to ten numbers in these lists.

Missed Calls

Menu 1.1

This option lets you view the last 10 unanswered calls. You can also:

- Edit the number if available and dial it or save it in the phonebook
- Delete the number from the list

Received Calls

Menu 1.2

This option lets you view the last 10 phone calls received. You can also:

- Edit the number if available and dial it or save it in the phonebook
- Delete the number from the list

Dialed Calls

Menu 1.3

This option lets you view the last 10 numbers dialed.

You can also:

- Delete the number
- Edit the number and save it in the phonebook

Call Time

Menu 1.4

This option lets you view the timers for calls made and received. The following timers are available.

Last Call Time: length of the last call.


Total Call Time: total length of all calls made from or received to your phone since the timer was last reset.

Reset Timers: option used to reset the call timers; you must first enter the phone's lock code (see page 81) and then press the **OK** soft key.

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

Messages

The SMS (Short Message Service) function is a network service and may not be supported by your network. Messages can be sent by text, E-mail and paging messaging systems, provided that these services are supported by your network. To send text messages by phone, you must obtain the number of the SMS center from your service provider.

When the  icon appears, you have received new text messages. If the message memory is full, an error message is displayed and you cannot receive any new messages. Use the **Delete** option in the **Read Messages** menu (2.2) to delete obsolete messages.

Voice Mail

Menu 2.1

This menu provides you with a quick way of accessing your voice mailbox (if provided by your network).

Note: Voice Mail is a network feature. Please contact your service provider for more information.

Connect to Voice Server: Before using this feature, you must enter the voice server number obtained from your service provider (see menu option 2.1.2). You can then select this option and simply press the **OK** soft key to listen to your messages.

Note: You can recall the number needed from the Phonebook memory by pressing the **Phonebook** soft key.

Voice Server Number: allows you to change the voice mail server number.

To...	Then press the...
Enter the server number	Corresponding numeric keys.
Correct a digit	C key.
Save the entered number	OK soft key

Note: You can recall the number needed from the Phonebook memory by pressing the **Phonebook** soft key.

Read Messages

Menu 2.2

Three message boxes are available:

New Inbox: used to store the messages that you have received but not read.

Old Inbox: used to store the messages that you have received and read.

Outbox: used to store the messages that you have already sent or will send.

Select the required box. The header of the first message in the box is displayed:

- Message number
- Message status: New, Old, Not Sent, Sent (If you have set the **Delivery Ack** menu option to **ON**, the report is also shown; see page 63 for further details.)
- Date and time at which the message was received (inbox only)

To view this message, press the **View** soft key. The screen shows the:

- Sender's phone number (if sent with the message) or recipient's phone number
- Message text

To scroll through the message, press the  key.

You can choose the following options, by pressing the **Options** soft key.

Delete: allows you to delete obsolete messages.

Text Reply: allows you to reply by sending a text message. You can also change the SMS center number (if required).

Call Back: allows you to call the sender back.

Cut Number: allows you to extract a number from the message text, so that you can call the number or save it in the phonebook.

Send: allows you to send a message that you have received or saved. You can:

- Send the message
- Save and send the message
- Save but not send the message

Edit Message: allows you to edit a message.

Note: The available options may vary, depending on the message status (New/Old, Not Sent or Sent for example).

Write Messages

Menu 2.3

Via this menu, you can write text messages of up to 160 alphanumeric characters. For further information on how to enter the characters in your message, refer to page 33.

Note: While writing a message, pressing the **#** key inserts a carriage return.

After you complete the message and press the **OK** key, you can select the following options.


Send Only: Enter the destination and select a setting group in which you set up default information on the SMS feature via the **Setup** menu (see the following page).

Save and Send: allows you to save a copy of the message and then send the message to the required destination. You are also required to select a setting group. You can read the message in your outbox using the **Read Messages** option. **Sent** is displayed when you read the message to indicate the message status.

Save Only: allows you to save the message so that it can be sent later. When you read the message in your outbox, **Not sent** is displayed.

Preset Message List

Menu 2.4

Using this menu, you can preset up to five messages that you use most frequently. This menu shows the preset message list. Scroll through the list using the  key. When the required message number appears, press the **Options** soft key.

Edit: allows you to write a new message or edit the selected preset message.

Note: For further information on how to enter the characters in your message, refer to page 35.


Send Message: allows you to recall the selected message. Once you have completed the message, you can send, save and send, or simply save it.

Delete: allows you to delete the selected message.

Setup

Menu 2.5

Via this menu, you can set up default information for the SMS feature. A setting group is a collection of settings required to send messages. Five setting groups are available.

Select the desired number using the  key, press the **Select** soft key and then set up the options for the group. The available options are:

Service Center: allows you to store or change the number of your SMS center required when sending messages. You must obtain this number from your service provider.

Setting Name: allows you to give a name to the setting group currently being defined.

Callback Number: allows you to set the phone number to which the recipient of your SMS message may send you a reply message via your message center, if the service is provided by the network.

Manual Ack: allows you to activate or deactivate the manual acknowledgement function. When this function is activated, the recipient can send you an answer to your message by one touch of a number key.

Delivery Ack: allows you to activate or deactivate the delivery acknowledgement function. When this function is activated, the network informs you whether your message has been read or not by the recipient.

Privacy: allows you to set the restriction feature. When this option is set to **Restricted**, the recipient must have the password which you have set when writing a message to see the message. If you do not want to use the feature, select **Not Restricted**.

Urgency: allows you to set the urgent status of the messages. **Bulk**, **Normal**, **Urgent**, and **Very Urgent** are available.

Type: allows you to set the type of messages. **Text** and **E-mail** are available.

Sound Settings

You can use the Sound Settings feature to customize various settings, such as the:

- Ringing tone or melody, volume and type
- Sounds made when you press a key, make an error or receive a message

Ring Volume

Menu 3.1

This option allows you to adjust the ringing volume to one of five levels.

Press the „ key to increase and the key to decrease the volume. The greater the number of bars, the greater the volume.

Ring Tone

Menu 3.2

This option allows you to select the required ringing tone. You can choose between 20 different tones. Each time you select a tone, it is played for a few seconds. Tones 19 and 20 correspond to the melodies that you can compose, using the **Melody Composer** menu option (3.9).

Alert Type

Menu 3.3

This option allows you to indicate how you are to be informed of any incoming calls. The following options are available.

Light only: only the backlight is switched on; the phone neither rings nor vibrates.

Melody: the phone rings using the ringing tone selected via the **Ring Tone** menu option (3.2).

Vibration: the phone vibrates but does not ring.

Note: In idle mode, you can set the phone to vibrate only (silent mode) or to start ringing again, simply by pressing the **C** key (for further details, see page 20).

Vibra+Melody: the phone first vibrates three times and then starts ringing.

Keypad Tone

Menu 3.4

This option allows you to select the tone that the keypad generates when you press a key. The following options are available.

OFF: the keys do not make any sound.

Tone: each key, when pressed, makes a different sound.

Beep: each key, when pressed, makes the same sound.

Message Tone

Menu 3.5

This option allows you to select how the phone informs you that a new message has been received.

The following options are available.

Light Only: the service light in the top right-hand corner of the phone flashes.

Single Beep: the phone beeps once.

SMS Tone1~10: the phone uses an SMS tone. You are provided with ten SMS tones.

Error Tone

Menu 3.6

This option allows you to select how the phone informs you that you have made a mistake.

The following options are available.

OFF: the phone does not beep.

ON: the phone beeps to indicate an invalid entry.

Minute Minder

Menu 3.7

This option allows you to specify whether the phone must beep every minute during an outgoing call to keep you informed of the length of your call.

The following options are available.

OFF: the phone does not beep.

ON: the phone beeps every minute.

Connect Tone

Menu 3.8

You can set your phone to beep when the person you are calling answers the phone.

The following options are available.

OFF: the phone does not beep.

ON: the phone beeps when your call is accepted.

Melody Composer

Menu 3.9

This option allows you to compose your own melody to be used as the ring tone.

Three octaves are available. A maximum of 100 notes can be entered. You can adjust the length of the notes and add rests, as required.

Composing a Melody

You can compose two melodies. When you access the menu, the names of any melodies created are displayed. Otherwise, **Melody 1** and **Melody 2** appear. Select the melody that you wish to create or edit.

To...	Then press the...
Compose a melody	Edit soft key.
Insert a note	Next soft key.
Move a note a semitone up	2 key.
Move a note a semitone down	8 key.
Change the length of a note	4 key one or more times until the note is of the required length.
Delete a note	C key.
Enter a rest	6 key and hold it down for the required length of time.
Listen to your melody	Listen soft key.
Modify your melody	Modify soft key.

Saving a Melody

When you are satisfied with your melody, you can save it and indicate that you wish to use it as the ring tone.

1. Press the **Save** soft key.
2. Enter a title for the melody.

Note: For further details on how to enter characters, refer to page 33.

You are asked if the melody is to become the ring tone.

3. To use the melody as the ring tone, press the **Yes** soft key.
The melody is saved and is played each time your phone rings. You can also select the melodies composed via the **Ring Tone** menu option (3.2); they are tones 19 and 20 respectively.

Otherwise, press the **No** soft key. The melody is saved only.


Phone Settings

Many different features of your phone can be customized to suit your preferences. All of these features are accessed via the **Phone Settings** menu.

Infrared Activate

Menu 4.1

This feature allows you to send or receive data/fax through the infrared port. To use an infrared connection, you must:

- Install the modem driver for receiving or sending data/fax
- Install the network dial-up software supplied by your service provider or a fax application program for a fax call on your PC
- Configure and activate an IrDA-compliant infrared port on your PC
- Activate the Infrared feature on the phone; the  symbol appears on the bottom line of the display
- Dial the network service number given to you by the service provider

If there is no communication between your phone and the IrDA-compliant device within 30 seconds of activating the feature, it is automatically deactivated.

For further details, contact your service provider.

Greeting Message

Menu 4.2

This option allows you to set a greeting message to be displayed briefly when the phone is switched on. The current message is displayed.

To...

Clear the existing message

Enter a new message

Then press the...

C key and hold it down until the message is cleared.

Appropriate alphanumeric keys.


For further details on how to enter characters, refer to page 33.



Calling Card

Menu 4.3

If you wish to use a calling card for long distance calls, you must first store your calling card information into your phone using this menu. Your phone can store up to four calling cards (Card A ~ D). When you are attempting to access this menu, you are required to enter the phone's lock code.

Storing Calling Card Information

1. Select the calling card and press the **Options** soft key. The following options are available.
 - **Select:** selects the highlighted card. Once you select the card, you can use it for dialing by pressing and holding down the  key.
 - **Dialing Sequence:** allows you to select the dialing sequence.


- **Change Name:** changes the name of the calling card.
 - **Erase:** erases the calling card.
2. Select **Dialing Sequence** using the  key and press **Select**.
 3. Select the dialing sequence your card uses (see the table below) using the  key and press **Select**.
 4. Enter the number when prompted for the calling card's access number (usually the 1-800 number listed on the back of the calling card), and press **OK**.
 5. Enter card number when prompted to enter the calling card number, and press **OK**.

Dialing Sequence


Dialing Sequence	Use for cards that require you to	Card using this sequence*
Access no. + phone no. + card no.	Dial 1-800 access number, phone number, then card number	MCI, AT&T True Choice, Sprint Canada, Unitel
Access no. + card no. + phone no.	Dial 1-800 access number, card number, then phone number	network MCI, WorldPhone MCI
Prefix + phone no. + card no.	Dial the prefix (any numbers that must precede the phone number) phone number, then card number	GTE, PacBell, AT&T, Stentor

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

Choosing a Calling Card

1. Select the calling card and press the **Options** soft key.
2. Select **Dialing Sequence** using the  key and press **Select**.

Making Calling Card calls

1. Enter the phone number, including any prefix (such as 0 or 1) that your calling card may require when you make a calling card call. See your calling card for instructions.
2. Press and hold down the  key until your phone displays "Card Call."
3. Your phone displays "Wait for tone, then press OK." When you hear the tone from your calling card call, press **OK**.
4. When you hear another tone from your calling card call, press **OK**.

Note: This procedure may not apply to all calling card options programmed into your phone. Please look at the back of your calling card or contact your long distance company for more information.

Backlight

Menu 4.4

You can select whether or not the phone uses the backlight. A marginal increase in standby/talk time can be achieved by turning the backlight off.

The following options are available.

OFF: the backlight is not used.

Short: the backlight comes on when you press a key or receive a call and switches off 10 seconds after the last key is pressed.

Long: the backlight comes on when you press a key or receive a call and switches off 20 seconds after the last key is pressed.

Service Light

Menu 4.5

This option allows you to select whether or not the service light in the top right-hand corner of the phone is used.

The following options are available.

OFF: the service light is not used.

ON: the service light flashes when the phone is ready for use.

Auto Redial

Menu 4.6

With the Auto Redial function, the phone makes up to ten attempts to redial a phone number after an unsuccessful call.

Note: The interval between two call attempts varies.

The following options are available.


OFF: the number is not redialed.

ON: the number is redialed automatically.

Active Flip

Menu 4.7

This option allows you to answer a call simply by opening the flip. The following options are available.

Disable: to answer a call, you must open the flip and press any key except **C**, , and the **Reject** soft key.

Enable: to answer a call, you simply open the flip.

Contrast

Menu 4.8

This option allows you to adjust the contrast of the LCD screen by pressing the „ or key. Each time you press the key, you can see the LCD screen changing according to the current value.

Slide Menu

Menu 4.9

With the **Slide Menu** feature, you can determine how the menus are displayed. If the feature is enabled, the menus seem to slide into position from the top, bottom, left or right, as applicable.

Language

Menu 4.10

You can select a display language. The available language options are: **English**, **French**, **Spanish**, and **Portuguese**.

Reset Settings

Menu 4.11

You can easily reset your phone to its default configuration.

Enter the 8-digit phone lock code and press the **OK** soft key. The phone resets all settings to default.

Note: The lock code is preset to 00000000. To change this code, refer to page 81.

Organizer

The Organizer feature enables you to:

- View the calendar and organize your schedule
- Define a list of things to do
- Set the current date and time
- Set the alarm so that the phone rings at a specific time (to remind you of an appointment for example)
- Use the phone as a calculator
- Assign functions to the navigation keys so that they can be used as shortcuts giving direct access to your favorite menus

Calendar


Menu 5.1

With the Calendar feature, you can:

- Consult the calendar
- Write memos to keep a track of your schedule and trigger an alarm if necessary

Consulting the Calendar

When you select the **Calendar** menu option (5.1), the calendar is displayed. The following options are available when you press the **Options** soft key.

Search all: displays all memos set, regardless of the day and starting with the oldest. To scroll through the memos, press the  key.

Delete all: allows you to delete all memos. You are asked to confirm your action.

Go to date: allows you to jump to a specific date.

Writing a Memo

To write or edit a memo on a specific date, proceed as follows.

1. Select the required date in the calendar, using the navigation keys.

Note: To skip to the previous or next month, press the **Left** or **Right** keys on the left side of the phone.

2. Press the **Select** soft key.
An empty memo screen is displayed to allow you to enter your memo.
3. Enter your memo and then press the **OK** soft key.

Note: For further details on how to enter characters, refer to page 33.

You are asked if you wish to set the alarm.

4. If you want the alarm to ring on the chosen day, press the **Yes** soft key.
Otherwise, press the **No** soft key.
5. If you pressed **Yes**, set the time for the alarm and press **OK**.
A check mark is displayed in front of the date in the calendar to indicate that a memo exists.

Editing a Memo

If you select a day for which a memo already exists, you can press the **Edit** soft key to edit the memo displayed.

Note: For further details on how to enter characters, refer to page 33.

Once you have finished editing the memo, press the **OK** soft key. The following options are then available when you press the **Options** soft key.

Alarm: allows you to set the alarm to ring on the chosen day.

Erase: allows you to delete the memo.

Copy to: allows you to copy the memo to another date.

Move to: allows you to change the date and time of the memo.

To Do List

Menu 5.2

This feature allows you to:

- Draw up a list of tasks to be done
- Assign a priority and deadline to each task
- Sort the tasks by priority and status mark (☐ for tasks to be done, ☒ for completed tasks)


Creating the To Do List

To create the To Do List, proceed as follows.

1. Press the **New** soft key.
2. Enter the first task.

Note: You can enter up to 48 characters. For further details on how to enter characters, see page 33.

3. Press the **OK** soft key.

4. Select high or low priority using the  key and the **Select** soft key.
5. Enter your deadline.
6. Press the **OK** soft key.

Editing the To Do List

If tasks are already defined in the To Do List when you select the **To Do List** menu option (5.2), the current contents are displayed with the associated priority and status mark. The following options are available.

To...	Then...
View the details for a specific task	<ul style="list-style-type: none"> • Highlight the task. • Press the View soft key. • Press the * key to mark the task as completed as of the current date and time.
Change the status of a specific task (<input type="checkbox"/> or <input checked="" type="checkbox"/>)	<ul style="list-style-type: none"> • Highlight the task. • Press the * key. <p>or</p> <ul style="list-style-type: none"> • Highlight the task. • Press the Options soft key. • Select the Mark option. • Select the appropriate status.
Create a new task	<ul style="list-style-type: none"> • Press the Options soft key. • Select the New option. • Enter the text, priority and deadline for the task.
Edit an existing task	<ul style="list-style-type: none"> • Highlight the task. • Press the Options soft key. • Select the Edit option. • Change the text, priority and deadline for the task.

To...	Then...
Sort the existing tasks by priority or status	<ul style="list-style-type: none"> • Press the Options soft key. • Select the Sort option. • Select the sort criterion (high, low, done, undo).
Copy a task	<ul style="list-style-type: none"> • Highlight the task. • Press the Options soft key. • Select the Copy option. • Change the text, priority and deadline for the task as required.
Delete a task	<ul style="list-style-type: none"> • Highlight the task. • Press the Options soft key. • Select the Delete option.
Delete all tasks	<ul style="list-style-type: none"> • Press the Options soft key. • Select the Delete all option. • Confirm the deletion by pressing OK.

Time & Date


Menu 5.3

This option allows you to change the current time and date displayed. You can also check the current time for Greenwich Mean Time (GMT) and 21 major cities around the world.

Set Time: allows you to enter the current time. You can choose the time format via the **Format** menu option (5.3.4).

Note: Before setting the time, you must specify your time zone, via the **World Time** menu option (5.3.3).


Set Date: allows you to enter the day, month and year. You can change the date format via the **Format** menu option (5.3.4).

World Time: allows you to check the current time for Greenwich Mean Time (GMT) and 21 major cities around the world, using the  key.

The screen shows the:

- City name
- Current date and time
- Time difference between the selected city and your city if you have set the local time (see below for further details) or GMT (by default)

To select the time zone in which you are located, proceed as follows.

1. Select the city corresponding to your time zone by pressing the  key one or more times.
The local date and time are displayed.
2. Press the **Set** soft key.

Format: allows you to change the time and date formats.

Time format: 24 hours
12 hours

Date format: YYYY/MM/DD (year/month/day)
DD/MM/YYYY (day/month/year)
MM/DD/YYYY (month/day/year)

Alarm

Menu 5.4

This feature allows you to:

- Set the alarm to ring at a specific time
- Set the phone to switch on automatically and ring the alarm if the specified time is reached while the phone is switched off (**Autopower** menu option set to **Enable**)

In the **Alarm** menu, the following options are available.

Once Alarm: the alarm rings only once and is then deactivated.

Daily Alarm: the alarm rings every day at the same time.

Weekly Alarm: the alarm rings every week on the same day and at the same time.

To set the alarm, proceed as follows.

1. Choose the alarm frequency option.
2. Enter the required time and day of the week (if applicable).

To stop the alarm when it rings, open the flip and press the **Exit** soft key.

Remove Alarm: deactivates the alarm.


Autopower: if set to **Enable**, switches the phone on automatically when the alarm rings. You are then asked if you wish to leave the phone switched on.

To...

Leave the phone on

Switch the phone
off again

Then...

Hold down the  key.

Press the **Exit** soft key or
any other key.

If the menu option is set to **Disable** and the phone is switched off at the specified time, the alarm will not ring.

Calculator


Menu 5.5

Using this feature, you can use the phone as a calculator. The calculator provides the basic arithmetic functions: addition, subtraction, multiplication and division.

Using the Calculator

1. Enter the first number using the numeric keys.
2. Press the right soft key until the required arithmetic symbol appears: + (add), - (subtract), * (multiply), / (divide).
3. Enter the second number.
4. Repeat Steps 1 to 3 as many times as required.

Notes:

- To erase any mistakes and clear the display, press the **C** key.
 - To include a decimal point or a bracket, press the left soft key until the required symbol is displayed.
5. To calculate the result, press the  key.

Security

The Security feature enables you to restrict the use of your phone to:

- The people of your choice
- The types of calls of your choice

Change Lock code

Menu 6.1

The lock code is a password for locking or unlocking the phone. This feature allows you to change your current lock code to a new one. You must enter the current code before you can specify a new one.

The lock code is factory set to 00000000. Once you have entered a new lock code, you are asked to confirm it by entering it again.

Change Security code

Menu 6.2

The security code is used for restriction of the use of your phone. This menu allows you to change your current security code to a new one. You must enter the current code before you can specify a new one.

The security code is factory set to 00000000. Once you have entered a new password, you are asked to confirm it by entering it again.

Call Restriction

Menu 6.3

The call restriction feature allows you to restrict your calls.


Call restriction can be set up in the following ways.

Restrict all outgoing call: calls cannot be made.

Restrict all Incoming call: calls cannot be received.


Restrict outgoing call: calls to the phone numbers which you have specified cannot be made. You can save up to 10 phone numbers.

To restrict the all outgoing or incoming calls, proceed as follows.

1. Select **Restrict all outgoing call** or **Restrict all incoming call** by pressing the  key until the appropriate option is highlighted and then press **Select**.
2. Select **Enable** to the feature on, and press **Select**.
If you want to set the restriction off, select **Disable**.
3. Enter your security code and press **OK**.

To save the phone numbers to be restricted, proceed as follows.

1. Select **Restrict outgoing call** by pressing the  key, and then press **Select**.

2. Enter your security code and press **OK**.
3. Select the location by pressing the  key and press **Options**.
4. Select **Edit**, then the **OK** soft key. If a number has already been saved, this option allows you to edit the number.
If you want to erase a saved number, select **Erase**. When a confirmation displays, press **Yes**.
5. Enter the phone number and press **OK**. The phone number is saved and now you cannot make a call to the number.

SOS Call List

Menu 6.4

Your phone provides the option of storing emergency numbers for SOS calls. All three numbers can manually be dialed at any time even when the phone is locked. Each number can be up to 18 digits long. This can be a useful feature for controlling the numbers which can be dialed from your phone when the phone is locked.

To store an SOS call number, select a location for the number, and press the **Edit** soft key. Then enter the desired number and press the **OK** soft key.

To make an SOS call when the phone is locked, press the **SOS** soft key, select the desired number saved in the SOS call list, and then press the **Yes** soft key.

Network Services

These menu functions are network services. Please contact your service provider to check their availability and subscribe to them, if you so wish.

Call Diverting

Menu 7.1

This network service enables incoming calls to be rerouted to the number that you specify.

Example: You may wish to divert your business calls to a colleague while you are on holiday.

Note: For using the Call Diverting service, you must set the service code for it. For details, see page 89.

Call diverting can be set up in the following ways.

- **Divert Always:** all calls are diverted.
- **Busy:** calls are diverted if you are already making another call.
- **No Reply:** calls are diverted if you do not answer the phone.
- **Unreachable:** calls are diverted if you are not in an area covered by your service provider.
- **Cancel All:** all call diverting options are cancelled.

The following options are available.

Activate: activates the Call Diverting feature.

Cancel: deactivates the Call Diverting feature.

You can deactivate all call diverting settings by selecting the **Cancel All** option.

Call Waiting

Menu 7.2

This network service enables you to be informed when someone is trying to reach you during another call.

Note: For using the Call Waiting service, you must set the service code for it. For details, see page 89.

The following options are available.

Activate: activates the Call Waiting feature. You can answer an incoming call while you have a call in progress. See page 44 for answering a waiting call.

Cancel: deactivates the Call Waiting feature.



Network Selection

Menu 7.3

The Network Selection feature enables you to indicate whether the network used when roaming (outside your home area) is selected automatically or manually.

Note: You can select a network other than your home network only if it has a valid roaming agreement with your home network.

To indicate whether the network is to be selected automatically or manually when roaming, proceed as follows.

1. When **Network Selection** is displayed, press the **Select** soft key.
2. Press the  key until the appropriate option is highlighted and then press the **OK** soft key.
 - If you select **Automatic**, your phone automatically searches for a network available to you and chooses the appropriate one. Every time you switch your phone on, it resets this menu to **Automatic**.
 - If you select **Manual**, your phone searches for a network, then begins displaying them. Press the  key until the preferred network is highlighted and then press the **OK** soft key.
 - If you select **New Search**, your phone begins a new search for new Private and Residential systems. When finding the best new system, the phone displays it. Then you can confirm by pressing **Select** or start another search by pressing **Next**.
3. You are connected to that network.

Voice Privacy

Menu 7.4

Used only in digital networks, Voice Privacy encrypts the voice channel so that people cannot eavesdrop on your conversation. If you turn this feature on and voice privacy becomes inactive for any reason your phone displays "Voice privacy not active" and beeps.

The following options are available.

Activate: turns this feature on.

Deactivate: turns this feature off.

Note: This feature may not be available in all areas. Contact your service provider for details and availability.

Send ID

Menu 7.5

In most service areas, when you call someone, your name is presented to his/her caller ID. Using this feature, you can prevent your phone number from being displayed on the phone of the person being called. This feature is only effective when calling to a number that is equipped with Caller ID.

Note: This feature may not be available in some network. Contact your service provider.

The following options are available.

Hide Number: your phone number is not displayed on the recipient's phone.

Send Number: your phone number is sent each time you make a call.

NAM Selection

Menu 7.6

The service provider programs your phone with the phone number and system information into your phone's memory when your phone is first activated. This is called a Number Assignment Module (NAM).

For example, your phone can be activated in up to 4 different service areas each giving your phone a different phone number or account.

Only one number can be active at a time. When you select a phone number, you're also selecting which system you're using as your home system. The first phone number displayed with this menu is the currently selected number.

Notes:

- It may not be necessary to have four NAMs for your phone if your service provider has service or roaming agreements for each area in which you wish to use your phone. Contact your service provider for details.
- You need at least one active number to make a call. You cannot change from one NAM to another during a call.

Set Service Code

Menu 7.7

For using the network services, such as the Call Diverging and Call Waiting, you must set the service codes supplied by your service provider with this menu. For more information on the service code, contact your service provider.

Call Diverting: allows you to set the codes for using each of the options (**Divert Always**, **Busy**, **No Reply**, **Unreachable** and **Cancel All**) in the Call Diverting.

Call Waiting: allows you to set the codes for using each of the options (**Activate** and **Cancel**) in the Call Waiting.

Games


Using this feature, you can play seven different games with the phone:


- Casino
- Roulette
- Black Jack
- Sniper
- Snake
- Mole
- Othello

Once you have selected a game, the following options are available.

Play: allows you to start a game.

Level: allows you to select the level of difficulty.


Select the required level using the  key and press the **OK** soft key. This option is only available in games with several levels (Sniper, Snake).

Configuration: allows you to configure the phone for the chosen game (backlight and sound settings). To adjust each setting, highlight the **Backlight** or **Sound** option by pressing the  key and then toggle between **ON** and **OFF** by pressing the **On/Off** soft key.

Instructions: describes the buttons used by the game. If necessary, press the right soft key to see a more detailed description.

High Score: enables you to view the highest score recorded for the selected game. You can also reset this score by pressing the **Reset** soft key.

If you break the current record for the game, the phone displays the High Score screen.

To stop playing a game, press the **C** or  key.


Solving Problems

Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary service call.


“No service”, “Network failure” or “Not done” is displayed

- The network connection was lost. You may be in a weak reception area (in a tunnel or surrounded by buildings). Move and try again.
- You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialed

- Have you pressed the  key?
- Are you accessing the right cellular network?
- You may have set an outgoing call barring option.

Your correspondent cannot reach you

- Is your phone switched on ( pressed for more than one second)?
- Are you accessing the right cellular network?
- You may have set an incoming call barring option.




Your correspondent cannot hear you speaking

- Have you switched off the microphone?
- Are you holding the phone close enough to your mouth? The microphone is located in the bottom center of the phone.

The phone starts beeping and “Warning** Low Battery” flashes in the display**

- The battery is insufficiently charged. Replace the battery and recharge it.

The audio quality of the call is poor

- Check the signal strength indicator in the display (); the number of bars after it indicates the signal strength from strong () to weak ().
- Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialed when you recall a phonebook entry

- Check that the numbers have been stored correctly, by using the Phonebook Search feature.
- Re-store them, if necessary.

If the above guidelines do not enable you to solve the problem, take a note of:

- The model and serial numbers of your phone
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

Using the Batteries

Your phone is powered by a rechargeable Li-ion standard battery.

Precautions When Using Batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby times are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging times depend on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and life-time of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuit.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Safety Information

Road Safety

- Remember, road safety always comes first!
- Do not use a hand-held phone while driving a vehicle. Always park the vehicle before having a conversation.
- Make sure that the phone is stored safely and will not fall or be broken in the event of a collision or emergency stop.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.
- Only qualified personnel should install or service the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the unit.
- Electronic fuel injection, anti-skid braking, electronic cruise control or any other electronic systems may malfunction due to the lack of protection from radio signals. Check regularly that all cellular phone equipment in your vehicle is mounted and operating correctly.
- Operation of any radio-transmitting equipment, including cellular phones, may interfere with inadequately protected medical devices. Consult a doctor 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, you are advised that for satisfactory operations and personal safety, the equipment should only be used in the normal operating position.
- Always switch off the phone when at a refuelling point (service station). You 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.
- Switch off your cellular phone when in an aircraft. The use of cellular phones in an aircraft is illegal and may be dangerous to the operation of the aircraft or disrupt the cellular network. Failure to observe these instructions may lead to the suspension or denial of cellular telephone services to the offender, legal action or both.

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 (in a hospital for example).

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 fulfill the warranty obligations and enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids containing minerals will corrode the electronic circuits.
- Do not use or store the phone in dusty, dirty areas as its components may 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 the electronic circuits.
- Do not attempt to open the phone's casing. Non-expert handling of the phone may damage it.
- Do not drop or knock the phone. Rough handling may damage the internal circuits.

- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in mild, soapy water.
- If the phone or any of its accessories are not working properly, take them to your nearest qualified service centre. The personnel there will assist you, and if necessary, arrange for the phone to be repaired.

Emergency Calls

Important! This phone, like any cellular phone, uses radio signals, cellular and landline networks, as well as user-programmed functions that cannot guarantee connection in all conditions. Therefore, you should never rely solely on any cellular phone for essential communications (medical emergencies for example).

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.

Glossary of Terms

To help you understand the main technical terms and abbreviations used in this booklet and take full advantage of the features on your mobile phone, here are a few definitions.

Active Flip

Ability to answer a call simply by opening the phone.

Call Barring

Ability to restrict outgoing and incoming calls.

Call Diverting

Ability to reroute calls to another mobile or fixed line.

Call Holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

Call Waiting

Ability to inform users that they have an incoming call when engaged on another call.

Conference Calling

Ability to establish a conference call involving up to five additional parties.

Line Identification Services

Services allowing subscribers to view or block the telephone numbers of callers.

Phone Password

Lock code used to unlock the phone when you have selected the option to lock it automatically each time it switches on, and security code used to restrict the use of your phone.

Roaming

Use of your phone when you are outside your home area (when travelling for example).

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received (up to 160 characters long) can be displayed, received, edited or sent.

Soft Keys

Keys marked ... on the phone, the purpose of which:

- Varies according to the function that you are currently using
- Is indicated on the bottom line of the display just above the corresponding key

Voice Mail

Computerized answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.

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TDMA Mobile Telephone STH-N270




Quick Reference Card

- Access the Menu Function
- ① Press the **Menu** soft key.
 - ② Scroll with the  key through the list of menus until you reach the required menu.
 - ③ Press the **Select** soft key.
 - ④ Scroll with the  key through the list of options until the required one is selected.
 - ⑤ Press the **Select** soft key to confirm.

- Each of the two soft keys () performs the function indicated by the text above it (bottom line in the display).

Switch On/Off	Press and hold  .
Make a Call	<ol style="list-style-type: none"> ① Key in the number. ② Press the  key.
End a Call	Briefly press the  key.
View Missed Calls	<ol style="list-style-type: none"> ① Open the phone and press the View soft key. ② Scroll with the  key through the missed calls. ③ To return the call, press the  key.



Answer a Call	Open the phone or Press the  key.
Adjust the Volume	Press the „ or key.
Choose the Alert Type	<p>① Select the Alert Type menu option (3.3).</p> <p>② Select an option: Light only, Melody, Vibration, Vibra+ Melody.</p> <p>③ Press the Select soft key to confirm.</p>
Store Numbers in the Phonebook	<p>① Key in the number.</p> <p>② Press the Save soft key.</p> <p>③ Enter the name.</p> <p>④ Press the OK soft key.</p> <p>⑤ If necessary, change the location.</p> <p>⑥ Press the OK soft key.</p>
Search for a Number in the Phonebook	<p>① Press the Name soft key.</p> <p>② Enter the start of the name.</p> <p>③ Press the Search soft key.</p> <p>④ To scroll through the names, press the  key.</p> <p>⑤ To make a call, press the .</p>