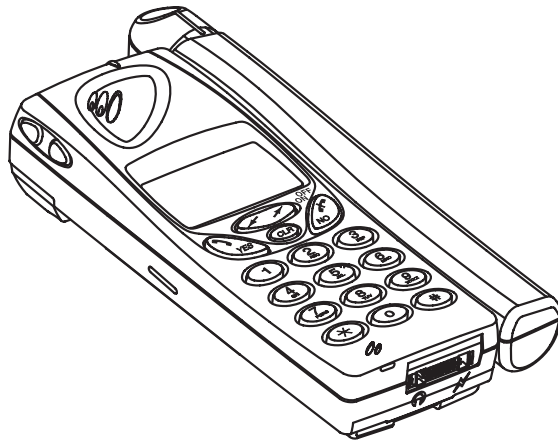


The phone that lets you stay in touch with the rest of the world.



ACeS OG698

Satellite/GSM 900 Cellular Phone

User's Guide

Preliminary Edition 1C

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Welcome...

and thank you for choosing the ACeS OG698 satellite/cellular phone, the revolutionary mobile phone that helps you keep in touch with the rest of the world.

The ACeS OG698 handheld satellite/cellular phone, hereafter throughout this manual referred to as “your phone”, literally puts the world at your fingertips. Your phone is small enough to fit in the palm of your hand or slip into a shirt pocket, yet the technology built into the phone allows you to receive and send phone calls from remote areas of the world where there are no telephone systems or cellular transmitters. When you make a call, your phone transmits a signal to a satellite, which then beams the signal back to your service provider who forwards the signal to the number you dialed.

Your phone operates in ACeS or GSM mode, allowing you to place satellite calls from remote areas, then when you return to an area with reliable cellular service it allows you to switch over to the less expensive cellular mode.

Your phone is designed to roam the remote areas of the world with you, whether you are travelling on international business, for pleasure, or for an emergency. Your phone will be a valuable communication tool whether you are a vacationer on holiday, a world business traveller, or a member of a geological survey, disaster relief, or search and rescue team. Whether you are a scientist, an explorer, or a retired person living out your dream of travelling

around the world, you are no longer limited by ordinary telecommunication systems which may be inconvenient or out of reach.

Your phone sets a new standard for others to follow while meeting the highest standards for durability, service and sound. It comes packed with features that help you stay in touch with the world from anywhere in the world.

These features include:

- Satellite mode for areas where cellular service is not available
- Cellular service for areas where it is available
- Voice, data and fax calls
- A phone book where you can store names and phone numbers
- An alarm clock, calendar, and calculator

This guide introduces you to your phone and shows you how to get the most out of it. Before you start, read “Safe and Efficient Use” on page 77.

About Your Phone

Operators & Subscriptions

Before you can use your phone you must obtain a subscription to a network. The services included in your subscription depend on your choice of operator and/or subscription. Therefore, some of the services and functions described in this manual may not be accessible to you. For a complete list of the services included in your subscription, please contact your network operator.

GSM 900/ACeS

Your phone operates in either GSM 900 or ACeS (Satellite) mode.

SIM Card

You will receive a SIM (Subscriber Identity Module) card with your subscription. The SIM card must be a dual mode SIM card in order for your phone to operate in both GSM and Satellite modes.

The SIM card contains a computer chip that keeps track of your phone number, the services you ordered from your network operator and your Phone Book information, among other things.

Your PIN

Your operator will provide you with a security code or Personal Identity Number (PIN) when you receive your SIM card. This number allows you to lock your SIM card. See “The SIM Card Lock” on page 71.

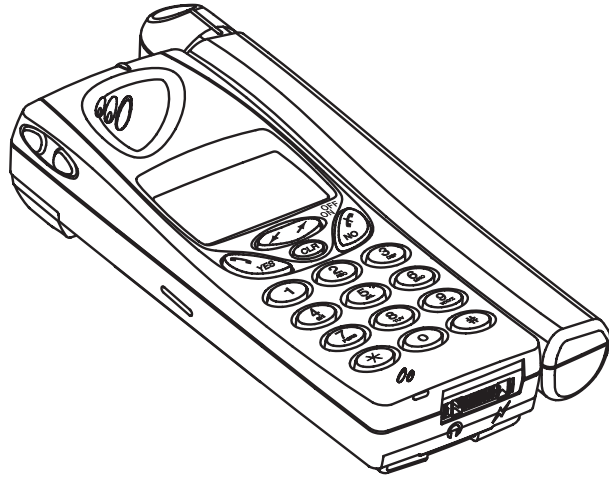
Store your PIN in a safe place. It is your protection against unauthorized use of your phone. Do not write it on your phone or place it where someone might see it.

The first time you turn on your phone you are prompted to enter your PIN (if the PIN is activated.) Your PIN may also be required when you change settings in your phone. Some services require a second PIN, the PIN2.

Enter your PIN carefully. If you enter your PIN incorrectly three times in succession, the SIM card will be blocked. If this happens you can unlock it by using a Personal Unblocking Key (PUK) code. You must contact your operator to obtain this code. See “Unblocking the SIM Card” on page 71

For information on changing your PIN, see “Changing the PIN Code” on page 72.

The Phone



The Keypad



Prepare Your Phone for Use

Before you can use your phone for the first time you must install the SIM card if it is not already installed, charge the battery, install the battery, and set default parameters for the phone and networks.

The SIM Card

When you register as a subscriber with a network service, you receive a SIM card. The SIM card stores information about your phone number and your subscription, among other things.

If you purchased your phone from your service provider the SIM card may already be installed. If not, you must install it before you can use your phone.

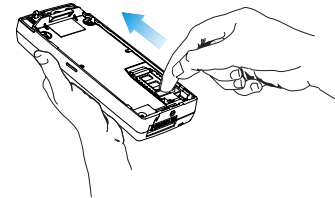


The SIM card that comes with your subscription is about the size of a postage stamp. Many services provide a credit card size card with postage stamp size SIM card that you punch out.

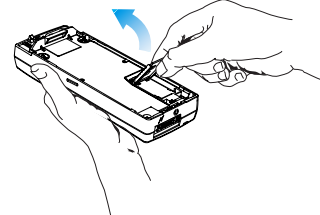
Note! If you try to use a SIM card that is not a 3-volt card, the message “Insert card” will display and you may only be able to make emergency calls on your phone.

Opening the SIM Card Holder

To open the SIM card holder, remove the battery if attached, then:



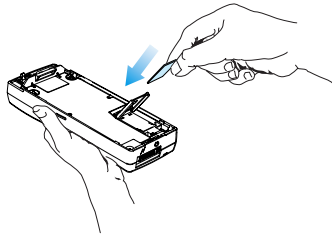
- 1 Release the SIM card holder by sliding it toward the top of the phone



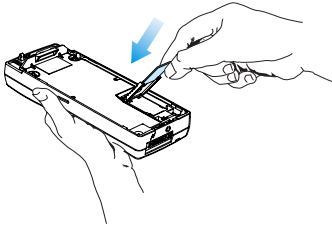
- 2 Fold out the holder as shown

Inserting the SIM Card

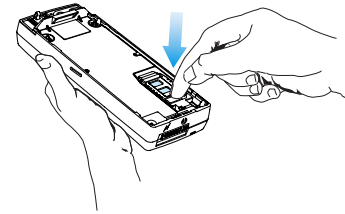
To insert the SIM card, remove the battery (if attached) then:



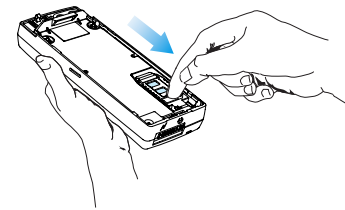
- 1** Hold the SIM card with the angled corner at the top right position



- 2** Slide the card into the holder



- 3** Fold down the holder



- 4** Lock the holder by pressing it down and sliding it toward the bottom of the phone

Operating Without A SIM Card

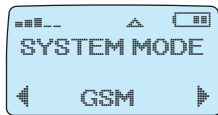
When operating in GSM mode, you can make emergency calls on your phone without a SIM card by dialling 112 or an alternate emergency number. (See "Locating a Network" on page 17 and "Emergency Calls" on page 25.)

Important! You cannot access satellite mode related services without a SIM card.

Operating With a GSM Standard SIM Card

Your phone will operate in ACeS mode with a Standard 3-volt GSM SIM card. You can change the default GSM or Satellite mode parameters to your personal preferences. Also see "Roaming with a Standard GSM SIM Card" on page 28.

When you turn your phone on the first time, the new SIM card is detected and the **System mode** and **Home Subscription** menus display.



1 When **Systemmode** displays press the navigation keys to the left or right to display GSM-only, GSM-preferred, Satellite-only, or Satellite-preferred mode

2 Press **YES** to select the mode

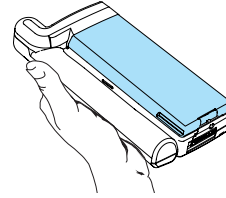
For more information on setting system mode preferences see "Select a Network Preference" on page 15, "Set Satellite Search Preferences" on page 15, and "Set GSM Search Preferences" on page 16.



3 The **Home Subscription** menu then displays. Press the navigation keys to display **ACeS** or **GSM**

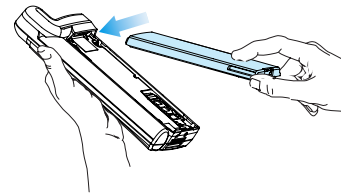
4 Press **YES** to enter the type of your home subscription.

The Battery

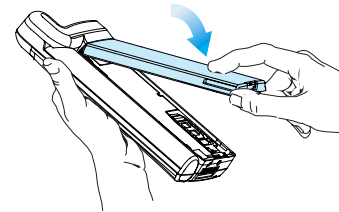


Your mobile phone comes with a nickel metal hydride (NiMH) battery. The battery is not charged when purchased, but there may be enough power to turn on the phone. You will need to charge the battery after you attach it to the phone. See "Charging the Battery" on page 7.

Attaching the Battery



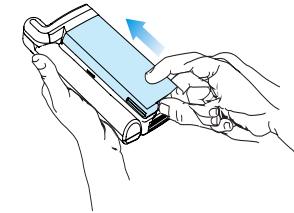
1 Place the battery on the back of the phone



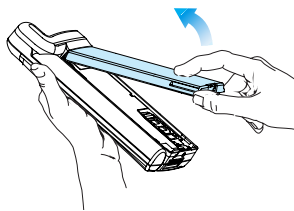
2 Press the battery forward and press down on the battery until you hear a click

Removing the Battery

Make sure that the phone is turned off before removing the battery, then:



- 1 Press forward on the battery



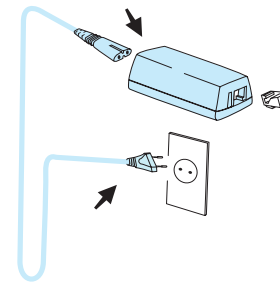
- 2 Lift the battery up and away from the phone.

Charging the Battery

The phone comes with an AC battery charger. You will need to charge the battery before using your phone for the first time.

Attaching the AC charger

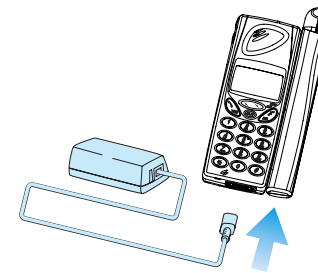
Follow these steps to connect the charger:



- 1 If applicable, connect the plastic plug on the charger cable to the charger

- 2 Connect the charger to the outlet

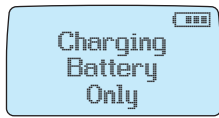
Note! The flash symbol on the plug must face upwards. You may have to press hard.



- 3 Connect the other end of the charger cable to the phone

The battery starts charging as soon as you attach the charger. A green indicator on the charger lights up. If it does not, disconnect the charger from the phone and try attaching it again, pressing hard. You should hear a click.

The phone may be charged when it is ON or OFF.



- ▶ If a charger is attached but the phone is turned off the message “Charging Battery Only” is displayed
- ▶ If the phone is on the display will continue to operate normally

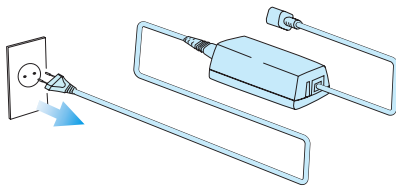
Charging is indicated by the following:

- ▶ the battery meter in the display is continuously filled and emptied
- ▶ the indicator on top of the phone shows a steady red light if the phone is off, green if the phone is on

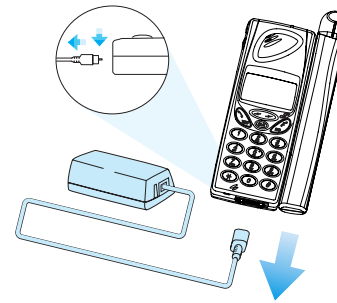
When the battery is fully charged, the battery meter in the display shows full and the indicator on top of the phone show a steady green light.

It is possible to use the phone while the battery is being charged. However, the charging time is increased.

Disconnecting the Charger



- 1 Disconnect the charger from the electrical outlet



- 2 Lift the plug connected to the phone upwards and pull it out.

When to Charge the Battery

The nickel metal hydride (NiMH) battery that comes with your phone can be charged as often or as long as you wish without losing performance. This is not the case with the nickel cadmium type batteries, often sold as accessories from other suppliers.

Important! For optimal talk and standby time, it is recommended that you use only nickel metal hydride (NiMH) batteries with your phone.

When the battery needs charging the following happens:

- ▶ An alarm signal (a long beep) sounds and the message Battery low appears for ten seconds in the display
- ▶ The indicator light on top of the phone starts blinking red
- ▶ The alarm may sound again after 10 minutes, depending on the battery type and how fast it is being discharged

Low Battery Alarm

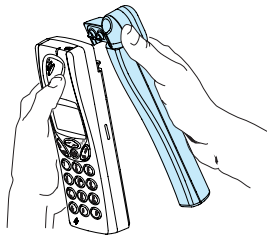
When the battery has discharged, the low battery alarm (described above) sounds, then the phone automatically shuts off. You might be able to turn the phone on again, but you can not make or receive any calls until the battery is charged, or replaced with a charged one.

The Antenna

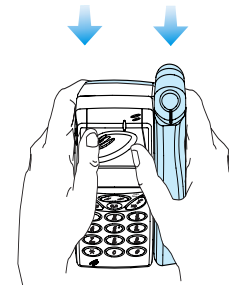
You will need to attach the antenna to your phone in order for it to receive the strongest network signal possible.

Attaching the Antenna

To attach the antenna:



- 1 Place the antenna behind the phone as shown

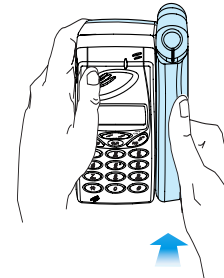


- 2 Press together as shown. You will hear a click when the two are attached properly.

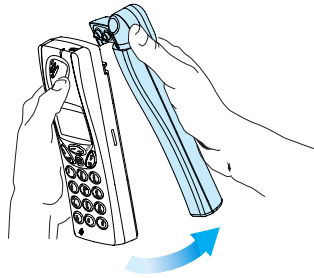
Removing the Antenna

When you do not need to make calls you may remove the antenna from your phone.

To remove the antenna:



- 1 Grasp the phone with both hands.
- 2 Place your right thumb on the lower part of the antenna
- 3 Press back on the antenna



- 4 Lift off the antenna with a slight rotation from bottom to top

Turning Off the Phone

To turn off your phone press and hold the **NO (ON/OFF)** key until the display is turned off.

Turning On the Phone

Note! The first time you turn on your phone you will need to enter the PIN (SIM lock code) given you by your service provider. You may change your PIN or turn the SIM lock off. See “The SIM Card Lock” on page 71 for instructions.

The digits appear as stars (*) in the display. If you make a mistake while entering your PIN, erase the digit by pressing the **CLR** key.

To turn on the phone:







- 1 Press and hold down the **NO (ON/OFF)** key until you hear a click.
- 2 Enter your PIN
- 3 Press **YES**

If you entered your PIN correctly, you will receive a welcome message.

Navigating the Menu System

The menus are arranged in a continuous loop which you move through with the **YES**, **NO**, **CLR** and **Navigation** keys.

| Key | Name and function |
|---|---|
|  | Navigation Key: Press right or left to activate menu mode and scroll through menus. |
|  | YES key: Answers a call, turns phone on, selects a menu or function, or sends a call when digits are displayed. |
|  | NO key: Ends a call, turns phone off, backs up one level and/or leaves a setting unchanged, clears the display if pressed while digits are on the display. |
|  | Clear key: Takes you back to the standby menu. If pressed during an incoming call or call pending notification, it mutes the ringer. |

To select a menu or make a setting:

- 1 Press the navigation key to the until you reach the desired menu or function

- 2 Press **YES** to enter the menu or to select the function
- 3 Press the LEFT or RIGHT navigation key to find the desired submenu
- 4 Press **YES** to enter the submenu or to confirm the setting

Note! If you do not press any key for 60 seconds, the phone will return to standby.

Display Text and Symbols

When you navigate the menus the following indications apply:

- Uppercase letters indicate the menu or function selected
- Text within brackets ([]) indicates the current setting for the function displayed ◀ and ▶ indicate you can scroll through more options with the navigation key

Indicators in the display

See the table “Indicators in the Display” on page 81 for examples of symbols used in the display.

Initial Phone Settings

You will need to set certain parameters before using your phone for the first time. You will need to set other parameters before using some of the features. You can also personalize your phone by changing settings such as the ring tone or melody, ring level, or display light. See “Personalize Your Phone” on page 29.

Master Reset

If you should make changes and then decide that you do not want to keep those changes, you can reset your phone to the default factory settings with the following procedure:



- 1 Access the **SETTINGS** menu and select **Master reset**
- 2 Enter your phone lock code and press **YES**

Lock and Unlock Your Phone

Keypad Lock



Use the **ACCESS** menu to lock the keypad on your phone so keys cannot be accidentally pressed when you are transporting it. See “The Key Lock” on page 74 for instructions on locking and unlocking the keypad.

Phone Lock

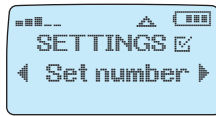
The phone lock protects the phone against unauthorized use in the event of theft. It is not activated when you purchase the phone.



Use the **ACCESS** menu to set a Phone lock or Key lock code, to change your code, lock your SIM card, or to bar certain incoming or outgoing calls. See “The Phone Lock” on page 73 for detailed instructions.

Set Phone Numbers

You may have as many as three different phone numbers associated with your satellite subscription. If the phone numbers exist on your SIM and your subscription allows you to change the numbers, you can store them and display them when needed.



- 1 From the **SETTINGS** menu select **Set Number**
- 2 Select the phone number you want to set:
 - ▶ SAT Phone no
 - ▶ SAT Fax no
 - ▶ SAT Data no

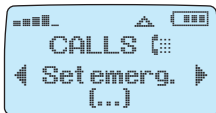
Display Phone Number

To display a number:

- ▶ From the **INFO** menu select **Number**
- ▶ Scroll to **Phone no, Fax no, or Data no** and press **YES**

Set an Emergency Number

The emergency number 911 is prestored in your phones memory for easy access.



- You can change this number from the **CALLS** menu.
- 1 Scroll to **CALLS\Set Emerg #**. The current number is displayed.
 - 2 Enter the new number

- 3 Press **YES** to confirm

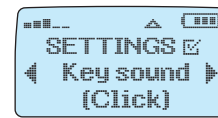
You can dial this number, or the standard emergency number 112, to make an emergency call in either GSM or Satellite mode.

Set Language

English is the default language in your phone's display. In some phones it is the only language available. In phones with more than one language available you may change the language from the **SETTINGS** menu.

Set the Key Click Preference

The key sound you set determines whether you can send DTMF (Duel Tone Multifrequency) tones or not. For more information on DTMFs see "Sending Tone Signals" on page 40.



- 1 Select **SETTINGS\Key Sound**
- 2 Press **YES**
- 3 Select **Silent, Click, or Tone**
- 4 Press **YES**

- ▶ If **Silent** is selected, you cannot generate DTMF tones.
- ▶ If **Click** is selected, you can generate DTMF tones
- ▶ If **Tone** is selected, you can generate DTMF tones and they will be sent automatically
- ▶ If you have numbers displayed during a call you can send DTMF tones by pressing **YES**.

Set Clock

Your phone displays the time when in standby mode. During a call, it displays the time elapsed since the call began. You can also set other clock-related functions such as date, time and date format and the alarm. See “Time and Date” on page 29.



To set the time:

- 1 From the **TOOLS\Clock** menu select **Set clock**
- 2 Enter the time in hours and minutes

If Clock/Clockmode is set to AM/PM, you can switch between AM and PM by pressing * or #.

- 3 Press **YES**

Set Satellite Antenna Pointing

When the satellite signal is not strong enough for the phone to receive calls or register with the network, the Antenna Pointing feature can sound a signal that will assist you with positioning the antenna when receiving a call. See “Point Antenna” on page 17.

To activate the antenna pointing feature:

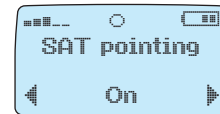
- 1 Scroll to display **SETTINGS\Point antenna\ON**
- 2 Press **YES** to enable the feature

To deactivate the Antenna Pointing feature:

- 1 Scroll to display **SETTINGS\Point antenna\OFF**

- 2 Press **YES**

- ▶ If set to **ON**, you will hear the satellite assist signal consisting of different pitches (depending on the signal strength) when receiving notification of a pending call. The signal will continue until time-out or a full satellite signal is acquired, or until you press CLR to turn it off.
- ▶ If set to **OFF**, instead of the signal described above, the call pending notification signal of three short tones is repeated every 5 seconds until timeout or your phone locks onto a signal that is strong enough for your phone to respond to it



- ▶ If set to **ON**, you will see the display shown at the left when antenna pointing assistance is needed.

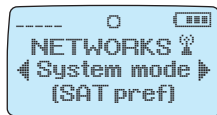
The volume for the Antenna Pointing signal is the same as the ring volume. To change the setting see “Set the Ring Signal Level” on page 34.

Network Settings

You will need to set defaults for the networks you will use before you use your phone for the first time.

Select a Network Preference

You can select the networks you want to use and the order in which you want your phone to search for them. You only need to do this once unless you want to change your preference.



- 1 Select **NETWORKS** from the menu
- 2 Select **Systemmode**
- 3 Press **YES**

The current setting will display. The default is **Satellite preferred** mode.

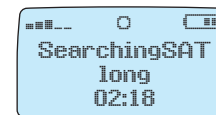
Select one of the following options and press **YES**:

- ▶ **Satellite only:** searches only for a satellite network
- ▶ **Satellite pref:** searches first for a satellite network. If none is found, it searches for a GSM network
- ▶ **GSM only:** searches only for a GSM network according to the search pattern set in GSM Search Options.
- ▶ **GSM pref:** searches for a GSM network. If none is found the phone searches for a satellite network.

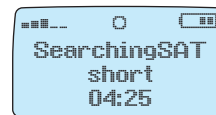
Set Satellite Search Preferences

You can set a default search pattern for a Satellite network. Your phone will use this search pattern to search for a satellite network each time you turn your phone on.

You only need to do this once unless you want to change your defaults. You must be in Satellite mode to set satellite search preferences. (You must be in GSM mode to set GSM preferences.)



- 1 Select **NETWORKS\Search opt\Sat**
- 2 Select **Searchmode**



- 3 You will be prompted to select a search pattern
 - ▶ Select **Long** for a long search pattern. This can take up to 12 minutes.
 - ▶ Select **Short** for a short search pattern. This normally takes less than two minutes if successful.

Your phone will remember short search patterns used to acquire service. Therefore, you only need to use the long search option if you travel long distances to a new location.

Set GSM Search Preferences

You can set a default search pattern for a GSM network. Your phone uses this search pattern to find a GSM network each time you turn your phone on. You only need to do this once unless you want to change your defaults.

Your GSM subscription is your home GSM service provider, either A or B.

You must be in GSM mode for GSM search options to display. (You must be in Satellite mode to set SAT preferences.)



- 1 From the **NETWORKS** menu select **Search Opt\GSM**
- 2 Select **Searchmode**
- 3 You will be prompted to select one of the following search modes
 - ▶ Auto
 - ▶ Manual

Preferred Network List

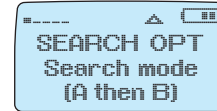
You can create a list of satellite networks to select from manually when your home network is not within range. Use this feature in the future when more satellite networks become available.

Note! This list does not define the order in which your phone selects a network, as the strongest radio signal is always selected.

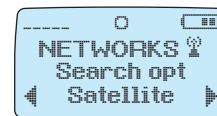
The number of networks that can be stored in the list depends on your SIM card.



- 1 Select **NETWORKS\Search opt\Sat**



- 2 Press **YES**



- 3 Select **Search opt/Edit list**
- 4 Press **YES**
- 5 Scroll through the network list displayed. If you have more than one, press **YES** to select a network list to edit.

- 6 Press the arrow keys to scroll through the list of network names. Press * to display the complete network name.
- 7 Press **YES** when the network you want to add is displayed.
- 8 To update the list and add new networks to select from see "Update the Network Lists" on page 23.

Locating a Network

When you have installed the SIM card, charged the battery, attached the antenna, and completed the initial setup as explained in “Initial Phone Settings” on page 12, you are ready to use your phone. A network search begins as soon as you turn on your phone. When a network is found, the phone beeps three times.

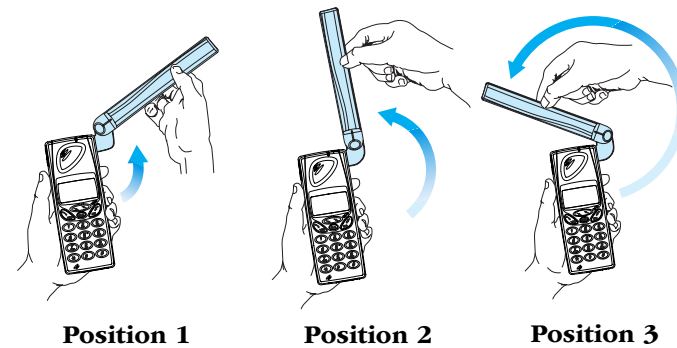
The indicator light on top of the phone flashes green once every second and your network operator’s name (in most cases abbreviated) is shown in the display. If the charger is connected, the indicator displays a steady green light instead of a flashing green light.

(If this is the first time you have used your phone, see “Set Satellite Search Preferences” on page 15, and “Set GSM Search Preferences” on page 16.)

Position the Antenna

You will need to position the antenna in order to receive a full satellite signal. Grasp the antenna and flip it upward until it clicks into one of the three upward positions shown in the figure below.

Important! You may be able to receive a network signal without raising the antenna. However, the antenna should be in one of the three upward positions shown above for your phone to work most efficiently.



Position 1

Position 2

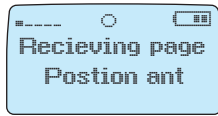
Position 3

For more information on positioning the antenna properly see “Point Antenna” on page 17, and “Satellite Indicators” on page 19.

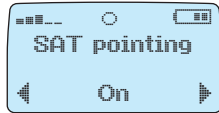
Point Antenna

If you activated the Antenna Pointing feature, you can use it to assist you in locating a full-strength satellite signal. See “Set Satellite Antenna Pointing” on page 14.

Point Antenna to Receive Call



► If a satellite network is in range but signal reception is not strong enough for you to receive a call, you can only receive notification of a pending call.



► If the Antenna Pointing is set to **ON**, you will hear the satellite assist signal consisting of different pitches (depending on the signal strength) when receiving notification of a pending call. The signal will continue until time out, a sufficiently strong satellite signal is acquired, or until you press CLR to turn it off.



► If set to **OFF**, instead of the signal described above, the call pending notification signal of three short tones is repeated every 5 seconds until time out or your phone finds a signal that is sufficiently strong enough for your phone to respond to it

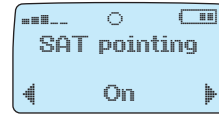


Move the phone and antenna to different positions until the **Position Ant** message disappears. If the phone receives a full service signal before the time-out, **Connecting** displays, the phone rings, and you can answer the call.

Point Antenna to Make Call



If you are receiving a satellite signal, but it is not strong enough to make a call (a half circle is displayed), **Position Ant** message displays when you initiate a call. The call will be pending until a sufficiently strong signal is received.



If the **Antenna Pointing** is set to **ON**, and you press **YES** again, the Antenna Pointing feature will be activated to help you place the call. Reposition the phone until you hear a beep and **Calling** displays.

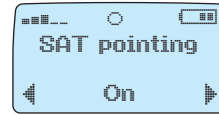
Point Antenna At End of Search



If a satellite network is found but the signal is not sufficiently strong enough for the phone to register with it. The phone will display the "Position antenna" message and the empty circle service indicator.

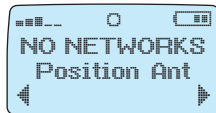
The **Antenna Pointing** feature can help you register with a satellite network signal.

1 Make sure the **Antenna Pointing** feature is set to **ON**



2 From the **NETWORKS** menu select **Point at\satellite**

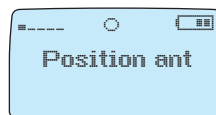
3 Position the phone with the antenna pointing up, and reposition until a strong satellite signal is received and you hear three beeps



Until a sufficiently strong signal is located, "**No Network**" and "**Position Antenna**" messages will display.

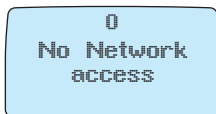
Satellite Indicators

The following satellite service indicators are displayed:



▶ An empty circle indicates limited or no satellite service.

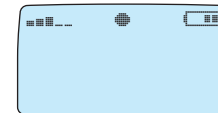
▶ An empty circle with **Position Ant** displayed indicates you should position the antenna to obtain a better signal and full satellite service for both making and receiving calls.



▶ An empty circle with **No Network access** displayed, indicates you can make emergency calls only



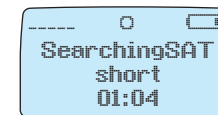
▶ A half circle indicates you can receive notification of an incoming satellite call. You will not be able to receive the complete call, however, until you position the antenna to obtain full service.



▶ A full circle indicates satellite full service. All types of calls can be made and received.

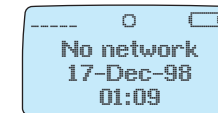
Search for a Network

One of the following messages is displayed during the network search:



▶ **Searching Sat** or **No network** is displayed while the phone is searching for satellite service

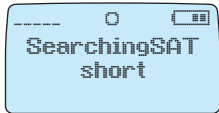
▶ **Searching GSM** or **No network** is displayed while the phone is searching for GSM service



▶ **No Network Access** indicates a network was found but you do not have permission to use it except to make emergency calls



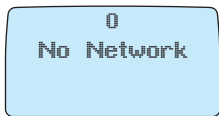
► **Position Antenna** indicates a satellite network was found but your radio signal is not strong enough to make or receive calls. You must position your antenna until a full circle is displayed.



► Until a strong signal is located the message **No Network/Position Antenna** displays

Satellite Only Mode

If you have selected **Satellite Only** as your default mode, a search for a satellite signal begins with the message **Searching Sat Short** or **Searching Sat Long**. See "Set Satellite Search Preferences" on page 15 for more information.



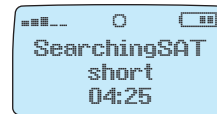
► If the last search completes without finding a satellite, **No network** is displayed. After a short while the search will repeat.



► If you want to restart the search process at any time, select **NETWORKS/New Search**. (See "New Search" on page 21.)

Satellite Preferred Mode

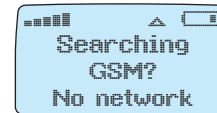
When you select **Satellite Pref** mode as the default, and a search for a satellite begins, your phone displays the messages **Searching Sat/Short** or **Searching SAT/Long**.



► If no network is located, **No network** is displayed and the search will restart after a short while

► You can enter **NETWORK/New Search** at any time to restart the search process or change it

GSM Only Mode



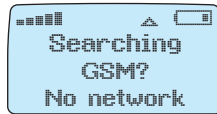
When you select **GSM Only** mode a search begins for a GSM network and the message **Searching GSM** is displayed

► If no network is found, **No network** is displayed. The signal strength indicator will indicate none



► You can enter **NETWORKS/New Search** at any time to restart the search process

GSM Preferred Mode



In **GSM pref** mode, the phone searches first for a GSM network.

- ▶ If no GSM network is found the phone begins a search for a satellite network
- ▶ If no network is found, **No Network** is displayed and the search repeats after a short while. You can enter **NETWORKS/New Search** at any time to restart the search process or change it.



New Search



If no network is found by using the searches described above, or you want to change the current network, you can initiate a new search on a mode opposite the one you are currently in, or you can initiate another search in the current mode.

This allows you to do a quick search without changing any of the defaults in the **NETWORKS/Systemmode** menu.

New search in opposite mode

If you are operating in **Satellite Preferred** mode or **GSM Preferred** mode and want to switch to the opposite mode:



- 1 Scroll to the **NETWORKS** menu. Select **New search/<opposite mode>**
- 2 Press **YES**

A search begins for a network in the opposite mode.

New search in current mode

If you are operating in **Satellite Only** or **GSM Only** mode you can initiate a new search in the current mode.



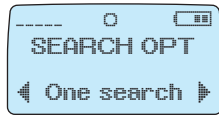
- 1 Scroll to **NETWORKS** menu, select **New search/<current mode>** is displayed
- 2 Press **YES**

A search begins for a network. in the current mode.

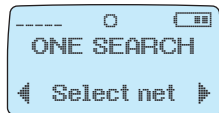
Single Search for a Satellite Network

Note! Contact your operator for a Channel number. If you are unsure of the Spot beam and Channel numbers you may attempt to use the data displayed with each prompt. You must be in Satellite mode to attempt to access the **NETWORKS/Search opt/Satellite/One search** menu.

To select a network:



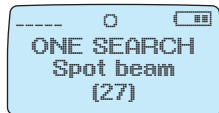
- 1 Select **NETWORKS/Search opt/Satellite** and press **YES**
- 2 Select **SEARCH OPT/One search**
- 3 Press **YES**



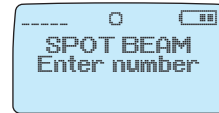
- 4 Select **ONE SEARCH/Select net** by pressing **YES**. **The list of satellite networks is displayed**
- 5 Use the navigation keys to scroll through the Satellite network list that is displayed
- 6 Press **YES** to search for the network that is displayed

Select a spotbeam number

If you know the spotbeam number of your location, you can search for it. If you don't know the spotbeam number, contact your service provider or refer to "Spotbeam Map" on page 83.



- 1 Scroll to **NETWORKS/Search opt/Satellite** and press **YES**
- 2 Scroll to **SEARCH OPT/One search** and press **YES**
- 3 Scroll to **ONE SEARCH/Spot beam/(current number)** and press **YES**

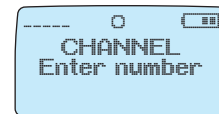


- 4 **SPOT BEAM/Enter/new #___** will display. Press **YES**

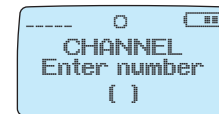
You may enter up to 3 digits or you may attempt to use the default number that is displayed. The highest spotbeam number is 140.

Select a channel number

You can also search for a particular satellite channel. If you don't know the channel number, contact your service provider.



- 1 Select **NETWORKS/Search opt/One search** and press **YES**
- 2 Scroll to **SEARCH OPT/One search** and press **YES**



- 3 Scroll to **ONE SEARCH\Channel # (current if known)** and press **YES**

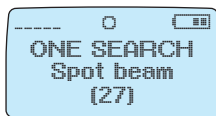
You will be prompted for the channel number. Contact your operator for this number.

- 4 Enter the Channel number and press **YES**. **Please wait...** will display until the correct channel is located.

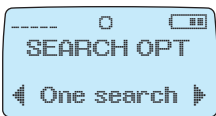
Extensive Search

If no other satellite search is suggested you can select an Extensive search.

To select an Extensive search (this may take several minutes):



- 1 Select **NETWORKS/Search opt/Satellite** and press **YES**



- 2 Scroll to **SEARCH OPT/One search** and press **YES**



- 3 Select **ONE SEARCH\Extensive search**. **Please wait...** will display

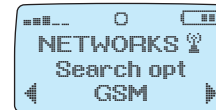
- 4 When a network is located you are prompted to select it or reject it.

The information displayed refers to:

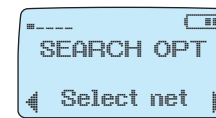
- ▶ System operator: Home or Roam
- ▶ Spacecraft (multi-spacecraft system only): Home or Roam
 - ▶ Press **YES** to accept the Satellite Network displayed
 - ▶ Press **NO** and the search will continue

Single Search for a GSM Network

You must be in GSM mode to attempt to access the NETWORKS/Search opt/GSM menu. To perform a single search for a GSM network:



- 1 Scroll to **NETWORKS/Search opt/GSM** and press **YES**



- 2 **SEARCH OPT/Select net** displays. Press **YES**. **The list of GSM networks is displayed**

- 3 Scroll through the list of networks until the network you want to use is displayed

- 4 Press **YES** to search for this network

Search Without Changing Defaults

You can search for a satellite or GSM network without changing the default search pattern with the **New Search** option. See "New Search" on page 21.

Update the Network Lists

You can update the GSM and the Satellite network lists, which are used when searching for service, one list at a time.

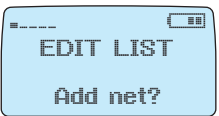


From the **NETWORKS/Search opt/SAT** or **Search opt/GSM** menu, select **Edit list**



The networks are presented one at a time. If more than one is available, you can use the navigation keys to scroll to a particular network.

- To delete a network from the list select **Erase**



- To add a new network to the list, select **Add net?** If you want to add a network that is not known to the phone, scroll to **Other?** and press **YES**.



When prompted, enter the Country Code and the Network Code (up to three digits each) for the new network. You can obtain these codes from your service provider.

Note! You can use this option if new satellite networks or spacecrafts become available in the future.

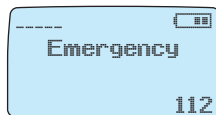
- To rearrange the list, select **Move** and enter a new position
- The network positions in the GSM list determine the order of the GSM service search only

Making and Receiving Calls

The instructions in this chapter assume that you have performed setup procedures described in the previous sections, have turned on your phone, and that you are within range of a network. Also see “Select a Network Preference” on page 15 and “Locating a Network” on page 17.

Emergency Calls

To make an emergency call:



- 1 Turn the phone **ON and wait for service**
- 2 Enter 112 (or the additional emergency number you programmed into your phone, where applicable. See “Set an Emergency Number” on page 13.)

- 3 Press **YES**

The display shows **Emergency**.

When you make an emergency call while in Satellite mode the call is routed to your home network.

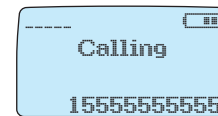
Note! You can make emergency calls in GSM mode without a SIM card, but the satellite network may require you to have a SIM card installed to make emergency calls in satellite mode.

Domestic GSM Calls

If you set the network search preference to “GSM pref” or “GSM only”, the search for a network begins as soon as you turn your phone on. See “Locating a Network” on page 17.

The network search proceeds according to the preferred search pattern you set when setting up your phone's defaults. See “Set GSM Search Preferences” on page 16.

To make a domestic call:

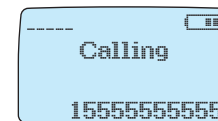


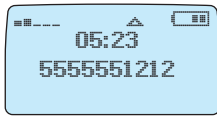
- 1 Enter the area code and phone number, or recall the number from your phonebook. The digits are shown in the display.
 - ▶ If you need to erase a digit, press **CLR**
 - ▶ To erase all digits, press and hold the **CLR** key until all digits have been erased

- 2 Press **YES** to make the call

Calling displays, followed by **Connecting**

- ▶ When the call is answered, the display shows the elapsed time in minutes and seconds
- ▶ If nobody answers, the number is busy, or the call does not go through, press **NO**. The number is stored in memory. See “Redial a Number” on page 36.





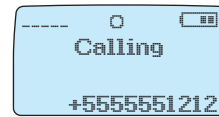
3 Press **NO** to end the call
 The Call Time meter displays the duration of the call for three seconds. You can also check the duration of the call later. See “Call Time/Call Cost Information” on page 47.

Domestic Satellite Calls

Your phone must be receiving a full strength satellite signal before you can make or receive a satellite call. It is assumed that you have read “Set Satellite Search Preferences” on page 15 and “Locating a Network” on page 17 before you attempt to make a satellite call.

- ▶ If you set the network search preference to “Satellite pref” or “Satellite only”, the search for a satellite begins as soon as you turn your phone on. “See “Set Satellite Search Preferences” on page 15.
- ▶ Your phone will display indicators for service level and satellite strength. See “Satellite Indicators” on page 19 and “Indicators in the Display” on page 81 for an explanation of the indicators displayed.
- ▶ If a network is located, the network type and service level symbols are displayed

To make a domestic satellite call whether you are in your home country or a foreign country:



1 Dial the area code and phone number or recall a domestic number from the phone book
2 Press **YES**. **Calling** displays, followed by **Connecting**.

- ▶ If fixed dialing is enabled, the numbers will be verified against the FDN list.
- ▶ In satellite mode, if you are calling another phone that operates in ACeS mode, a direct mobile to mobile connection will be indicated in the display by a handset icon and the message **Connecting...**

Note! Mobile to mobile calls are not encrypted.

3 Press **NO** to end the call.

The number is stored in memory, enabling you to redial the call (see “Redial a Number” on page 36).

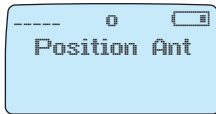
If you make a mistake when dialing a number you may correct it.

- ▶ To erase a digit, press **CLR**
- ▶ To erase all digits, press and hold the **CLR** key

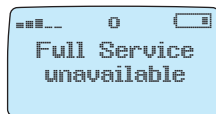
When the call is answered, the call time is displayed. You can also check the duration of the call later. f

Satellite Calls without a Full-Strength Signal

You can not make or receive a satellite call if your phone does not lock onto a signal strong enough to establish full service. If you are receiving a signal but it is not strong enough to make or receive calls (a half circle is displayed), you can do the following:



- ▶ Initiate a call. **Position Ant.** will display. The call is pending for a short time or until you obtain full service. The call is placed automatically if full service is established before the time expires. See "Point Antenna to Make Call" on page 18.

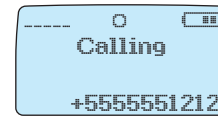


- ▶ If you make a call and full service cannot be established **Full service unavailable** displays and the phone returns to standby. You must reposition the antenna until full service is established. See "Point Antenna to Make Call" on page 18 for more information.
- ▶ Receive notification of pending calls. However, you can not receive the complete call or reply to it until you establish full satellite service. See "Point Antenna" on page 17.

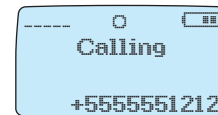
Satellite or GSM International Calls

When you make a call to any country different from the one in which you have your subscription, whether you are in your home country or in a foreign country, you must use the international format: country code, national destination code (AREA), and phone number.

To make an international call:



- 1 Press and hold the **0** key until the international character **+** is displayed or enter the prefix



- 2 Enter the country code, the area code (without the leading zero) and the phone number and press **YES**, or recall the number from the phone book

When you are roaming, your phone will automatically search for a valid network. See "Roaming" on page 28.

When you store non-home country numbers in your phone book, be sure to store them in international formats, + (plus sign), country code, national destination code (area code), then the phone number.

Important! All foreign phone numbers should be dialed as international numbers no matter what country you are in, either by pressing and holding down the 0 to generate the international prefix: (+) for the country you are in, or by entering the prefix using the keypad. This applies to both Satellite and GSM mode. These numbers should also be stored in international format in your phone book.

Note! If you dial the international prefix instead of generating the international prefix by holding down the + key, the call will go to the home network on your SIM card. This may not be the home network of the person you are

calling and you will not be able to take advantage of the cost saving feature Optimal Call Routing.

Roaming



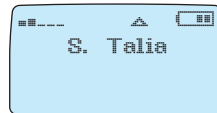
When you travel outside your home network area or switch to your secondary subscription, your phone will be in Roam mode. The triangular roaming indicator will display. You must dial the complete phone number of the person you are calling, including area and country code.

Roaming in Satellite Mode

This feature is not available now but will be in the future.

When roaming in satellite mode is available, you will only be able to receive service from an ACeS-compatible, a non-ACeS satellite system, or a non-home ACeS satellite system. SAT will be displayed instead of ACeS.

Roaming in GSM Mode

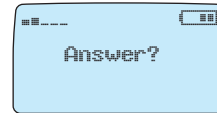


When roaming on a non-home system, the national roaming indicator will be displayed, together with the abbreviated country and network name.

Roaming with a Standard GSM SIM Card

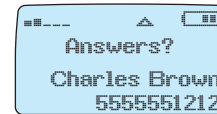
Your phone will operate in ACeS mode with a standard 3-volt GSM SIM card. You can change certain preset parameters to set your personal preferences for use in GSM or Satellite mode. Also see “Operating With a GSM Standard SIM Card” on page 6.

Receiving a Call



Note! The phone must be turned on and within range of a network before a call can be received.

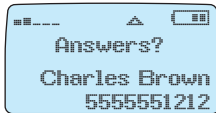
When you receive a call, the phone rings and the indicator light on top of the phone rapidly blinks green. The display shows **Answer?**



If you are in GSM mode and your subscription includes the service Calling Line Identification (CLI), and the caller's network sends the number, you will see the caller's number on the bottom row of the display. If the number is stored with a name in the phone book, the name will be shown in the display.

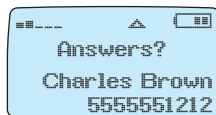
Note! Calling Line Identification is not currently available in Satellite mode.

To Answer the Call



- ▶ When your phone rings, press **YES**
- ▶ To end the call, press **NO**

To Reject the Call



- ▶ Press the **NO** key, or
- ▶ Press either one of the volume key on the side of the phone twice

The caller hears a busy tone, if the network supports this function, and the phone returns to standby.

Direct Mobile-to-Mobile Calls

If you make or receive a satellite call to or from another phone that also operates in satellite mode, the network will set a direct mobile-to-mobile connection over the satellite.

The display will show a handset icon during the entire call and no cell-related supplementary services will be possible.

Personalize Your Phone

You can personalize your phone by changing the settings listed in this section. For other settings see See “Initial Phone Settings” on page 12.

You can return your phone to the factory default settings from the Master Reset menu. See “Master Reset” on page 12.

Time and Date

The **TOOLS/Clock** menu lets you set (or reset) the time, the date, the date and time format, and lets you activate the alarm function.

You should set the clock during the initial setup, as the phone displays the time continuously when in standby mode. You will need to reset the time when you travel to different time zones.

Set Time

To set the clock:

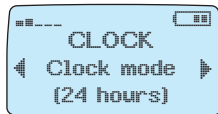


- 1 From the **TOOLS\Clock** menu select **Set clock**
- 2 Enter the time in hours and minutes
- 3 Press **YES**

If you have selected the 12-hour format in the Clock mode function you can alternate between am and pm by pressing **# or ***.

Set Time Format

To change the time format:

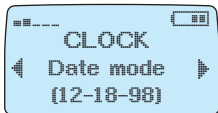


- 1 From the **TOOLS** menu, select **Clock\Clock mode**
- 2 Select the desired clock mode, 12 or 24 hour
- 3 Press **YES**

Set Date Mode

It is possible to have the current date displayed in the middle of the display when the phone is in standby mode.

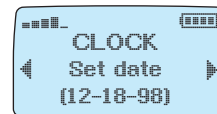
To set the date format:



- 1 Select **Date mode** from the **TOOLS\Clock** menu
- 2 Scroll to the required date format by using the navigation key
- 3 Press **YES** to select a date format

Set Date

To set the date:



- 1 Select **Set date** from the **TOOLS\Clock** menu
- 2 Enter the year (two digits)
- 3 Press **YES**
- 4 Enter the month and day using 2 digits for each
- 5 Press **YES** to confirm your setting

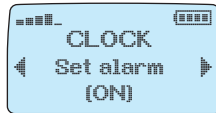
The Alarm

Your phone has an alarm function. When it is activated, an icon in the shape of a bell is shown in front of the current time in the display. See “Indicators in the Display” on page 81 for an example of the icon.

The alarm will sound at the set time even if the phone is turned off. The keypad and the display will flash. The volume of the alarm signal depends on the setting of the ring signal.

The alarm sounds for 60 seconds and is repeated every nine minutes until you turn it off.

To Set the Alarm



1 Select **Set alarm** from the **TOOLS\Clock** menu

2 Scroll to the **New time** option

3 Press **YES**



4 Enter the time in hours and minutes

5 Press **YES**

If you chose the 12-hour format in the Clock mode function you can alternate between a.m. and p.m. by pressing * or #.

To Turn the Alarm Off



1 Press any key to turn the alarm off when it sounds

2 Press **YES** if you do not want the alarm to be repeated

To Turn the Alarm Function Off

1 Select **Set alarm** from the **TOOLS\Clock** menu

2 Scroll to the **Off** option using the navigation key

3 Press **YES**

Select Ring Type

You can select from several ring tones, including 10 prestored melodies, or you can compose your own melody. You can use different ring tones for different call types: voice, data or fax, if your subscriptions provides these services.

To select a tone:



1 From the **SETTINGS** menu, select **Ring type**

2 Press **YES**

3 Scroll to select from **Mix, High, Low, Own melody**, or **Melody 1** through **Melody 10**

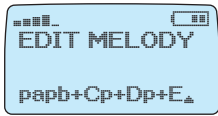
4 Press **YES** to store your selection

Compose Your Own Melody

To compose your own melody:



1 From the **SETTINGS** menu, select **Edit melody**



- 2 Press **YES**. The existing melody is shown
 - ▶ Press **YES** to hear the melody. **Ready?** displays. Press **YES**.
 - ▶ Press **CLR** to clear the old melody from the display

Note! You can clear one letter at a time or hold down the **CLR** key to clear all at one time.

3 The keypad now functions as a keyboard. Pressing a key produces a note. Press and hold a key to create a long note. See the table below for an explanation. Press **CLR** to erase a note.

- 4 Press **YES** to store your new melody

Adding Notes

The following table explains which keys correspond to which notes. Press **CLR** to erase a note. Press and hold down **CLR** to clear the display.

| Key | Regular pressure | Long pressure |
|-----|------------------|---------------|
| 1 | c | C |
| 2 | d | D |
| 3 | e | E |
| 4 | f | F |
| 5 | g | G |

| Key | Regular pressure | Long pressure |
|-----|------------------|---------------|
| 6 | a | A |
| 7 | b | B |
| 8 | +c | +C |
| 9 | +d | +D |
| * | p (pause) | p (pause) |

Change the Ear Piece Volume

Before changing the ear piece volume check that the ear piece is placed correctly over your ear.

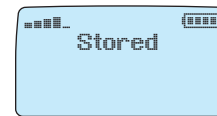
To change the earpiece volume:



- 1 Select **Ear volume** from the **SETTINGS** menu
- 2 Press the volume keys on the side of the phone to adjust the volume

- ▶ Press the top key for higher
- ▶ Press the lower key for lower

- 3 Press **YES** when you have reached the desired volume. **Stored** will display



Tip! During a call you can use the volume keys at the side of the phone to adjust the volume.

Set Handsfree Volume

You can set independent volume settings when you use the phone as a handheld unit or with various handsfree equipment. This means that if you set the ear piece volume when the phone is connected to the handsfree equipment, the volume setting when the phone is handheld will not be affected and vice versa. Also see “Handsfree Calling” on page 52.

If you have the phone set to handsfree Type 2, the Ear volume setting has eight levels instead of five. The four highest levels increase the clarity of speech, rather than the volume itself.

Set Answer Mode

This menu is available only in GSM mode. For more information about these settings see “Handsfree Calling” on page 52.

The Any key function

If the Any key function is turned on, you can answer an incoming call by pressing any key except the **NO** key.

The Auto function

If the Auto function is set to ON, an incoming call is automatically answered after one ring signal.

To select Automatic Answering Mode:



- 1 Select **Answering mode** from the **SETTINGS** menu
- 2 Choose **Any key** or **Auto**
- 3 Press **YES** to change the setting (ON or OFF) or **NO** to accept the default
- 4 Press **YES** again to confirm your setting

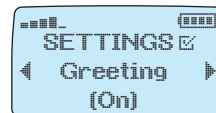
Change the Greeting Text

When you turn on your phone, a text greeting appears in the display. If your operator allows it, you may change the greeting to one that you compose.

To enter your own greeting:



- 1 Select **Greeting** from the **SETTINGS** menu
- 2 Scroll to **New text**
- 3 Press **YES**
- 4 Write your new greeting using the numeric keys. Use the 1 key to enter a space. Use the * key to toggle upper and lower case.
- 5 Press **YES** to confirm your new greeting

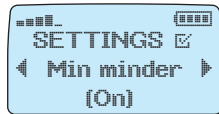


You can also turn the greeting function off. Select **SETTINGS\Greeting\New text\OFF**.

Set the Minute Minder

This function indicates the time spent during conversation by entering a short beep every minute.

To set the Minute Minder:



- 1 Select **Min minder** from the **SETTINGS** menu
- 2 Choose between **On** and **Off** using the navigation key
- 3 Press **YES** to confirm your selection.

Change the Display Backlight

The display light can be set to automatic, turned off or turned on.

In automatic mode, the display light is turned off automatically 10 seconds after the last key has been pressed. It will be turned on again when a key is pressed or when a call or message is received.

To set the display light:



- 1 Select **Light** from the **SETTINGS** menu
- 2 Choose the desired display light setting using the navigation key
- 3 Confirm your selection by pressing **YES**

You can have one setting when the phone is used as a handheld unit and another setting when the phone is used with a handsfree kit, powered from an external source.

If you place the phone in a vehicle handsfree cradle and make a selection, the setting will only apply to handsfree mode. You can set the display light to be turned on always in handsfree mode and still have it in automatic mode otherwise.

Set the Ring Signal Level

To change the volume of the ring;



- 1 From the **SETTINGS** menu, select **Ring level**
- 2 Press **YES**. The ring level indicator displays.



- 3 Press the navigation key to set the ring signal level. The phone will ring once as you increase the tone level
 - ▶ Press the left key to decrease the volume
 - ▶ Press the right key to increase the volume

- 4 Press **YES**. The message **Stored** displays.

Tip! Use the side keys to change the ring level silently.

If your phone is connected to handsfree equipment, the ring signal level is set separately. See "Handsfree Calling" on page 52 for more information.

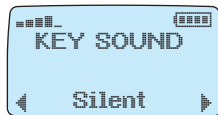
Instant Silent Ring Mode

You can put your phone in silent ring mode instantly by pressing and holding the CLR key (Long-CLR). **Ring OFF** will display.

Press and hold the **CLR** key while a call is coming to mute the ringer for the incoming call only.

Set the Key Sound Preference

The key sound you set determines whether you can send DTMF (Dual Tone Multifrequency) tones or not. For more information on DTMFs see "Sending Tone Signals" on page 40.

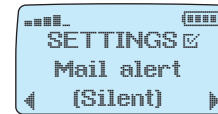


- 1 Select **SETTINGS\Key Sound**
- 2 Press **YES**
- 3 Select **Silent, Tone, or Click**
- 4 Press **YES**. The message **Stored** displays.

During a call, you can send DTMF tones regardless of Key Sound selection. Press a key to generate a tone, or recall a number from memory and press **YES** to generate a tone sequence.

Set Mail Alert

To set the Mail Alert signal:



- 1 From the **SETTINGS** menu select **Mail Alert**
- 2 Press **YES**
- 3 Select **Silent, Tone, or Click**
- 4 Press **YES**. The message **Stored** displays.

Features

Your phone has many features that make sending and receiving calls of all types easy. Some features and menus are operator dependent. Check with your operator for a list of features available to you.

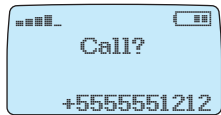
Redial a Number

If your SIM card supports this feature you can use the redial function to do the following:

- Automatically redial the last call you dialed that failed
- Recall the last 15 phone numbers you called and automatically dial them
- Recall the last 10 phone calls you answered and automatically dial them
- Recall the last 10 missed calls and automatically dial them

If your subscription supports Calling Line Identification, and the caller's network sends the number and caller identification, this information will be stored. If the number and name are stored in your phone book, the name will be displayed with the number.

Redial Previously Called Numbers



- 1 Press **YES**

Call? is displayed together with the last number you dialed

- 2 Press the navigation keys to display the number you want to call. Press **YES**.

To clear the last dialed number memory:

- 1 Select PHONEBOOK/Dialled numbers

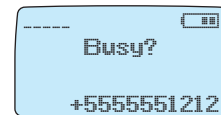


- 2 Press and hold the CLR key
- 3 **Erase all?** appears

- Press **YES** to erase the last dialed numbers
- Press **CLR** to return to standby mode

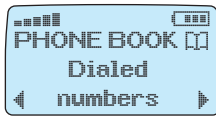
The Automatic Redial Function

If the connection fails, the display shows **Retry?** with the reason for the failure below.



- Press **YES** to automatically redial the number 10 times or until the call is answered
- If you press any key or you receive a call, redialing is interrupted
- If the redial is successful the phone beeps, then rings
- Press **NO** if you do not want to retry

Clear Call Memory



To clear the Answered calls and Dialed numbers memory:

From the **Phone book** menu select the memory you want to clear:

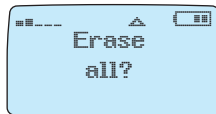
- ▶ Answered calls
- ▶ Dialed numbers

4 Press **YES**

5 Press and hold the **CLR** key

6 **Erase all?** appears

- ▶ Press **YES** to erase the last dialed numbers
- ▶ Press **CLR** to return to standby mode



Missed Calls

If you received calls but were unable to answer, the number of unanswered calls will display until you press the **CLR** key.

Information about the last 10 missed calls are saved, allowing you to check when the calls were received. If your GSM subscription includes the service Calling Line Identification and the caller's network sends the number, you can also find out who called.

To recall information about the missed calls:

1 From the **MAIL** menu, select **Missed Calls**



2 Press **YES**. Information about the last missed call displays

- ▶ Press **YES** to dial the number displayed, or
- ▶ Press the navigation key to display additional calls, and press **YES** to call the number displayed

Note! If you check a missed call within 24 hours, the time of the call will be displayed. Otherwise, the time is replaced by the date. You can toggle between date and time by pressing *.

To Clear Missed Call Memory

To Erase a Number from the Missed Calls Memory: when the information about the call is shown, press **CLR**. Your phone returns to standby mode. To clear all calls from the memory:



1 From the **MAIL/Missed calls** menu, press and hold the **CLR** key

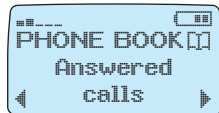
2 **Erase all?** appears

- ▶ Press **YES** to erase the last dialed numbers
- ▶ Press **CLR** to return to standby mode

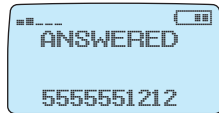
Return Calls

If your GSM operator provides Calling Line Identification, and the caller's network sends the number, the numbers of the last 10 answered calls are stored in the phone.

To recall one of the last answered numbers:



- 1 Press the left navigation key
The Phone book menu appears.
- 2 Press **YES** to enter the Phone book menu



- 3 Press the left navigation key repeatedly until the **Answered calls** function appears
- 4 Press **YES** to select the Answered calls function
- 5 Press the navigation key repeatedly until the number is displayed
- 6 Press **YES** to dial

Who Called and When

When you miss a call you can find out who called and when they called.



- 1 Press the right navigation key to the repeatedly until the **Mail** menu appears
- 2 Press **YES** to enter the **MAIL** menu
- 3 Press the navigation key repeatedly until the **Missed calls** function appears

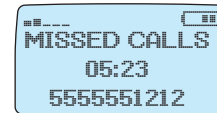


- 4 Press **YES** to enter the **Missed calls** function
- 5 To see other unanswered calls, press the navigation key repeatedly

The last caller's number (if your subscription includes the Calling Line Identification service) is displayed with the time (or date) the call was received.

If no information about the caller's number was received, the display will show one of the following:

- Unidentified - no information was available
- Restricted - the caller wants to withhold the number



- 6 Press **CLR** to return to standby mode

Note! If you check a missed call within 24 hours, the time of the call will be displayed. Otherwise, the time is replaced by the date. You can toggle between date and time by pressing *.

Erase a Number from Missed Calls Memory

- 1 When the information about the call is shown, press **CLR**
- 2 Press **YES** at the prompt

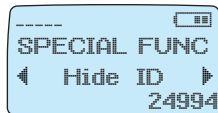
Hiding or Showing Your Number

With most subscriptions, the caller's number is sent when a call is made. This means that the receiver can see your phone number when you make a call. However, some operators offer subscriptions where your phone number is hidden.

You may alter the normal setting (according to your subscription) for a particular call.

Note: This feature is not available in Satellite mode, as Calling Line Identity is not supported.

Hiding Your Phone Number for a Particular Call



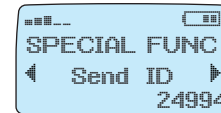
- 1 Enter the phone number
- 2 Press the navigation key to the RIGHT
- 3 The **Special functions** menu appears
- 4 Press **YES** to enter the Special functions menu

- 5 Press the navigation key repeatedly until **Hide Id** appears
- 6 Press **YES** to make the call

Showing Your Number for a Particular Call

Enter the phone number you wish to call.

- 7 Press the navigation key to the RIGHT



- 8 The Special functions menu appears.
- 9 Press **YES** to enter the Special functions menu
- 10 Press the navigation key repeatedly until **Send Id** appears
- 11 Press **YES** to make the call

NOTE! Some features are not available with all subscriptions.

Changing Functions During a Call

You can perform several functions while engaged in conversation.

Changing Ear Volume

To change the ear volume during a call:

- ▶ Press the top volume key on the side of the phone to increase the volume
- ▶ Press the bottom volume key to decrease the volume

Muting the Microphone

To temporarily mute the microphone during a call, press and hold the **CLR** key. **Mute** is shown in the display. To resume conversation, release the **CLR** key.

Using the Display as a Scratch Pad

If you need to write down a phone number during a call, enter the number using the numeric keys.

When you end the call, the number remains in the display. You can now call the number by pressing **YES** or save it in the Phone Book (see "Store a Name and Phone Number" on page 59).

Sending Tone Signals

In order to perform banking by phone or control a phone answering machine, you need to use codes sent as tone signals (also called DTMF or Dual Tone Multifrequency tones).

To send tone signals/codes during a call, press the appropriate keys (**1-9, *** and **#**).

Indicating a Pause

Sometimes you may need to send a signal to indicate a pause between two numbers. To send a pause:

- 1 Enter the numbers before the pause

- 2 Select **TOOLS/Special functions**
- 3 Select **Pause** and press **YES**
- 4 Enter any additional digits and press **YES**

Sending DTMF tones in number with a pause:

When dialing a number with pauses in standby mode, the first part of the number is sent as a telephone number. Any numbers after the pause are sent as DTMF tones. A 3-second pause is generated for each pause sign. You can force the pause to expire by pressing and holding **YES**.

Sending DTMF Tones While on a Call:

Digits entered during an active call are automatically sent as DTMF.

Sending Digits from Your Phone Book While on a Call:

While on a call, you can recall a phone book entry while you are on a call. A second call can be placed by pressing and holding the **YES** key.

Tip! You can also enter the code before you make the call or store it in the Phone Book. See "Create Your Personal Phone Book" on page 59.

Tone Sending Failure



If the tone signal fails, the message **Tone sending aborted** is displayed.

Call Divert

The call Divert option is only available if your network and subscription supports it. Divert is available in Satellite and GSM mode.

The Call Divert service lets you:

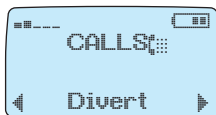
- ▶ Divert calls if you already are engaged in a call
- ▶ Divert calls that you do not answer in 30 seconds
- ▶ Divert calls if your phone is turned off or if you are unreachable
- ▶ Divert all calls

You can select to use all of the above call Divert options or only one or two, and you may want to Divert calls to different phone numbers, depending on the situation.

You may also Divert all calls regardless of whether your phone is turned on or off, or you are unreachable. If this function is activated the phone will not ring if a call is received.

Note! In satellite mode, make sure you have a full-strength satellite signal before you try to change or check your Divert selections.

Activating the Divert Option



From the **CALLS\Divert** menu, select the desired option:

- ▶ If **DATA** menus are **ON**, the following options are available: **Phone number, Fax number, Data number, All numbers.**

- ▶ If **DATA** menus are **OFF**, only **Phone number** is available.



- 5 Select one of the number options listed above and press **YES**

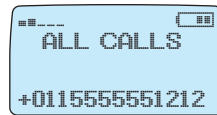


- 6 Select a sub-option, if applicable

- ▶ If you select **Phone number** or **All numbers** the following sub-options are available: **All calls, On busy, No reply, Unreachable, Cancel all** or **Check all.**



- ▶ If you select **All Calls, On busy, No reply** or **Unreachable**, the following sub-options are available: **Activate, Cancel,** or **Get Status.**



- ▶ If you select **Data number** or **Fax number** the following options are available: **All calls, Unanswered,** or **Cancel all**

All calls, On Busy, Unreachable, or Cancel All:



► If you selected **All Calls, On Busy**, or **Unreachable** or **No Reply**, and a phone number is on the display when you select the **Activate** option, it will be displayed with the **Activate** option.

Press **YES** to activate the option and divert calls to the number displayed. Usually the last number you diverted calls to is displayed but you can

replace the number with a new one.

► If no number is on the display and you select the **Activate** option, **Enter No** displays. Enter the number that you want calls diverted to and press **YES** to activate.



There may be a short delay before the network responds. **Please wait** is displayed, followed by **On busy/No reply - Divert ON**, depending on which divert option you chose. The selected phone number is also displayed.

Your phone will display information about any activated call divert each time you turn the phone on.

Checking the Divert Status

To check the status of call Divert:



- 1 Select **CALLS\Divert** menu.
- 2 Select the call type you want to check
- 3 Scroll to the **Check all** option and press **YES**

Note! **Check all** option is not available in Satellite mode.

Canceling A Call Divert

To cancel a Call Divert:



- 1 From the **CALLS\Divert** menu, select the call divert you want to cancel. To cancel all call diverts, select **All numbers/Cancel all**.

- 2 Press **YES**

The message **Please wait** appears followed by a message **Call divert cancelled**.

Call Waiting

Your phone allows you to handle more than one call simultaneously. This means that you may hold a call that is in progress and make or answer a second call, and then switch between the two calls.

Call Waiting service is dependent on your network and/or the network you are roaming in.

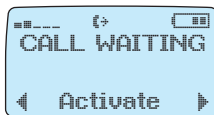
Note! In satellite mode make sure you have a full-strength satellite signal before you try to change or check your Call waiting selection.

To Activate the Call Waiting Service

To receive a second call, you must activate the Call Waiting service.



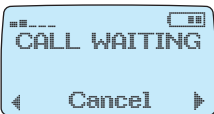
- 1 From the **CALLS** menu, select **Call Waiting**
- 2 Scroll to **Activate**, using the navigation key



- 3 Press **YES** to activate the call waiting service

There may be a short delay before the network responds. In the meantime, the message **Please wait** is displayed. This is followed by the message **Call waiting ON**.

To cancel the Call Waiting service:



- 1 From the **CALLS** menu, select **Call Waiting**
- 2 Scroll to **Cancel**, using the navigation key



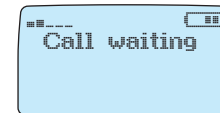
- 3 Press **YES**. Call Waiting is canceled

Check Call Waiting Status

You can check whether the call waiting service is activated or not with the **Get status** option.

To check the status, from the **CALLS/Call waiting** menu select Get Status. The current status will display

Receiving a Second Call



If the **Call Waiting** function is activated, a tone sounds when a second call is received, and the message **Call wait** will display.

- ▶ To End Current Call and Accept Waiting Call, press **NO**. The question **No** appears
- ▶ To answer the waiting call press **YES** t
- ▶ To put the current call on hold and accept waiting call press **YES**. The message **1 on hold** appears.

To Reject Waiting Call

Press **0** followed by **YES** to reject the waiting call and continue the current call. The waiting call is cleared.

- ▶ If the caller's network supports it, the caller will hear a busy tone.
- ▶ If **Divert On busy** is activated, the waiting call is Diverted to the number you specified.

Switching Between Two Calls

Press **YES** to switch between the active call and the call on hold.

Ending the Current Call

- 1** Press **NO** to end the current call

The message **Retrieve held call?** appears and a beep sounds

- 2** Press **NO** to end the held call, or press **YES** to return to the held call

If you do not press **YES** or **NO** within three seconds, the message **Retrieve held call?** disappears from the display. The held call is ended automatically.

Receiving a Third Call

If your Call Waiting function is activated, you may receive a third call when you are engaged in one call and have a second call on hold. You will hear a tone and the message **Call Wait** appears in the display.

Only one call can be on hold at a time. If you wish to accept the third call you must end one of the existing calls or both.

If you end one of the existing calls:

- ▶ Press **YES** to accept the waiting call

If you end both calls:

- ▶ The phone rings and **Answer?** is displayed
Press **YES** to answer the waiting call.

To reject the call, press **0** followed by **YES**

The third call is cleared. If the caller's network supports this function, the caller will hear a busy tone.

If **Divert On busy** is activated, the waiting call is Diverted to the number you specified.

Making a Second Call

While the first call is in progress:

- 1** Press **CLR** to clear the display
- 2** Press **YES** to put the current call on hold

The message **1 on hold** is displayed.

- 3** Enter the number (or recall it from the phone book)

- 4** Press **YES**

Or you may do the following instead:

- 1** Enter the number you wish to call while the first call is in progress
- 2** Press **YES** to put the first call on hold and to make the call.

The message **1 on hold** is displayed.

Connecting Two Calls (Call Transfer)

If you have one active call and one call on hold, you can connect the two calls.

- ▶ Press **4** followed by **YES**
- ▶ The two calls are now connected, and you are disconnected

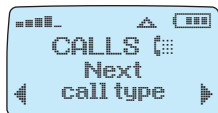
Note! This service may not be available in all networks. Contact your operator to find out if it is supported.

Set Next Call Order and Type

This option is valid only for GSM mode and only if you have a single number for both speech and data/fax services. If someone is sending a fax or data to you they may call (speech call) you first to alert you so you can be prepared to receive the call. This lets you connect your phone to a computer for a fax or data call.

You can set the order in which you wish to receive calls, no matter which type is sent first, with the **Next call type** option.

You must have the same phone number for both voice and non-voice services, and data services must be detected on your SIM card.



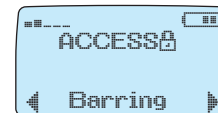
From the **CALLS/Next call type** menu select

- ▶ **Speech**
- ▶ **Speech/Fax**
- ▶ **Fax/Speech**
- ▶ **Fax**
- ▶ **Data**

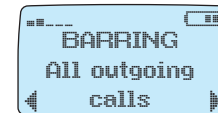
There is a shortcut to set the phone to receive speech calls first, then fax calls when two calls come in at the same time. Just select **CALLS/Speech then Speech/Fax**.

Barring Calls

You can Bar (restrict) some or all incoming or outgoing calls.



- 1 Select **Barring** from the **ACCESS** menu



- 2 Type your password and press **YES**
- 3 Scroll to one of the following and press **YES**

- ▶ All outgoing calls
- ▶ Outgoing int calls
- ▶ Int outgoing when roaming

- ▶ All incoming calls
- ▶ Incoming when roam
- ▶ Cancel all

You can also change your password for the **Barring** feature.



- 1 Select **Barring** from the **ACCESS** menu
- 2 Type your password and press **YES**
- 3 Scroll to **Change password**
- 4 Press **YES**
- 5 Enter your old password and press **YES**
- 6 When prompted, enter your new password and press **YES**
- 7 Enter your new password again to verify it, and press **YES** again. If you subscribe to this service, your service provider will provide your password.

Note! In satellite mode, make sure you receive a full-strength satellite signal before you try to change or check your Call barring selection.

Conference Calls

This feature is available only if your network and/or the network you are roaming in supports it. Contact your operator to find out.

The Conference Call service allows you to have a joint conversation with up to five other people. You may put an individual or a group of conference members on hold while you add other people to the conference call. You may also put conference members on hold while you talk to someone privately.

Initiating a Conference Call

To initiate a conference call:

- 1 Call the first person
- 2 Press **YES** to put this person on hold

- 3 Call the second person
- 4 Press **3**, followed by **YES** to include the two persons in the conference

You can put the conference group on hold and then add a third member by repeating steps 2 to 4. It is possible to add up to five members using the same method. Each person on the call is referenced by the sequence number in which they were added.

It is good to idea to write down each person and their number as they are added in case you want to release one of the members or have a private conversation with one member.

Private Conversations

If you wish to have a private conversation with one of the members, you can put the other members on hold.

To do this:

- 1 Press **2**
- 2 Press the number of the member you want to have a private conversation with. For example, if you wish to talk to the third person you brought into the conference, press **3**
- 3 Press **YES**

To join the member to the conference call again:

- ▶ Press the number of the member and then **YES**

Releasing One of the Members

To release one of the members in a conference call:

- 1 Press the number **1** key
- 2 Press the number of the member you want to release. If you, for example, wish to release member number three, press the number **3** key
- 3 Press **YES**

Making a Call while a Conference Call is in Progress

To make a call while participating in a conference call, do the following:

- ▶ Enter the number you wish to dial and press **YES**
The conference call is put on hold.
- ▶ To switch between calls, press **YES**
- ▶ To end the new call and return to the conference call, press **1** and **YES**
See “Conference Calls” on page 46 for more details.

Ending a Conference Call

Press **NO** to end the conference call and disconnect all members.

Caller ID

If your subscription and the person you are calling's subscription supports Caller ID service, that person's name and number will display on your phone.

You can enable or disable the Caller ID function for a particular call. See “Hiding or Showing Your Number” on page 39

Fixed Numbers Dialling

If you have a SIM card with FDN (Fixed dial number) you can turn the feature on or off.



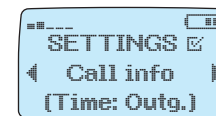
- 1 From the **ACCESS** menu, select **Fixed dial**
- 2 Enter your PIN when prompted
- 3 Select **ON** or **OFF**

Also see “Fixed Number Dialling” on page 74 in the “Security” section.

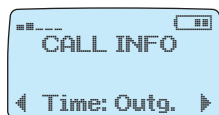
Call Time/Call Cost Information

You can display the call time for satellite or GSM calls (both incoming and outgoing), or for outgoing calls only, and cost of GSM calls. First you must set what type of information you want to display. Satellite mode will not display cost information.

To set the call information you want displayed:



- 1 Select **Call info** from the **SETTINGS** menu
- 2 Select **Time: Outg, Time: All** or **Cost**



- ▶ **Time: Outg** displays the time of the outgoing calls
- ▶ **Time: All** displays accumulated time of all calls
- ▶ **Cost** displays the cost of the last GSM call, or accumulated cost of all GSM calls
- 3** Confirm your selection by pressing **YES**

Check Call Time

Before you can use this feature you must set **SETTINGS/Call info** to **Time: Outg** or **Time: All**.

To display call time, from the **INFO** menu, select one of the following options:

- ▶ **Last call**
- ▶ **GSM calls**
- ▶ **ACeS calls**
- ▶ **Tot calls**

Press **YES** to confirm your choice.

Check GSM Call Cost

Call Cost information is not available in SAT mode. This function may not be available on all SIM cards.

In GSM mode, you can check the cost of the last outgoing GSM call or the accumulated cost of all outgoing GSM calls. You can also change the call cost per unit and store credit card numbers.

First you must set **Call cost** on by selecting **SETTINGS/Cost**.



- 1** From the **INFO** menu, select **GSM cost**
- 2** Press **YES**



- 3** Select **Last call** or **Tot calls**
- 4** Press **YES**

Check or Change Available Credit

To check the amount of prepaid credit remaining, from the **INFO\GSM cost** menu select **Credit**. The amount of credit remaining is displayed.

- ▶ Select **New credit** to update credit amount
- ▶ Select **Unlimited** if your account is paid by credit card or open account and is not prepaid

Check or Change Price Per Unit

The Price option lets you enter and vary the price per call unit. The price entered will be stored on your SIM card.

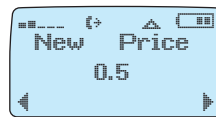
To enter the Price per Call Unit:



1 From the **INFO\GSM cost** menu, scroll to **Price** and press **YES**. The price per unit is displayed



2 Scroll to Units. Enter the code for the desired currency, for example USD for US Dollar, and press **YES**



3 Scroll to **New Price** and press **YES**

4 Enter the price per call unit, for example 0,5, and press **YES**



5 Enter your PIN 2 code. (The PIN 2 code prompt may not appear in some networks.)

Calling or Credit Card Calls

When making international or long distance calls, you may not want your operator to charge you for these calls on your normal account. If you have a

credit card or a calling card, you may redirect the charges to one of those accounts instead.

Before you can make calling card or credit card calls, you must activate this feature.

Activate Calling Card Feature

1 From the **ACCESS** menu, select **Call cards security** and press **YES**

2 Enter your security code and press **YES**. The default code is 0000

3 Scroll to **Call cards** and press **YES**

- ▶ If **Off** is displayed, press **YES** to turn it **ON**
- ▶ If **ON** is displayed, press **YES** to turn it **OFF**

The Call card function is now activated and the submenu Call card numbers will be visible in the Phone book menu.

You can store two separate card numbers in your phone. These numbers are protected by a 4- to 8-digit security code that you choose.

The default code is 0000.

Change Security Codes

- 1 From the **ACCESS** menu, select **Call cards security** and press **YES**
- 2 Enter your security code and press **YES**
- 3 Scroll to **Change code** and press **YES**
- 4 Enter your new code and press **YES**. The code can consist of four to eight digits
- 5 Confirm your new code by entering it again when **Repeat new code** appears in the display, and press **YES**
Your security code is now changed.

Store Credit or Calling Card Numbers

Your phone allows you to store two calling card numbers in the phone book menu. This submenu is only visible if the Call card function is activated in the ACCESS menu.

To store a calling card number:

- 1 From the **PHONE BOOK** menu, select **Call card numbers** and press **YES**.

- 2 Enter your security code and press **YES**. To change security codes, see “Changing the Security Code” on page 73.

- 3 Select card position (Card 1 or Card 2), using the navigation key, and press **YES**.

- 4 Enter the Access number to the calling card server. You will later use this number to automatically call your credit card server. Enter the numbers in the same way as you would in the regular Phone Book

- 5 Press the navigation key

- 6 Enter your calling card server Verification code

- ▶ To store the calling card number, press **YES**
- ▶ To change the dialling order, press the navigation key. **Called no** will flash in the display. Use the ***** or **#** key to change the order.

The dialing order may vary between calling card servers. If you are required to dial your verification code before or after the number you wish to dial, you can switch the order. To change the order, press the ***** or **#** key, when the Called no. row flashes.

Your service provider will provide you with the Access number and the Verification code.

Select the Card You Want To Use

If you stored two card numbers, you must select the card you wish to use before making a Calling/Credit card call.

- 1 From the **PHONE BOOK** menu, select **Call card numbers**
- 2 Enter your security code and press **YES**
- 3 Scroll to the card you wish to use, using the navigation keys, and press **YES**
Your settings for the card appear
- 4 To select the card, press **YES**

Make a Credit or Calling Card Call

The access number to the calling card server is called first. During the connecting phase, you are prompted to send the called number and the verification code. You can press **YES** at the prompts or let the phone dial each set of numbers automatically.

- 1 Enter the number you wish to dial, or retrieve it from the Phone book

- 2 Press and hold **YES**. The call is set up as a Credit/Calling Card Call

- 3 Press **YES** after each **Send?** prompt, or allow the phone to send automatically after each timeout

The Calculator

The phone's built-in calculator supports the four rules of arithmetic as well as percentages. An example of how to use the calculator follows. In this example you are going to divide 134 by 32.

- 1 Scroll to the **TOOLS/Calculator** menu and press **YES**
- 2 Enter 134
- 3 Scroll with the navigation keys to the division sign (/), and press **YES**
- 4 Enter 32

5 Press #, or scroll with the navigation key to the equal sign (=) and press **YES**. to get the result.

▶To clear the display, press **CLR**.

▶To Enter a Decimal Point, press *.

▶To multiply, press * twice

Handsfree Calling

You can answer a call and talk to the caller without holding your phone if you use one of the handsfree options. You can change the default settings for the handsfree related functions so that they suit your own requirements.

Handsfree Type 1

Handsfree Type 1 lets you talk in semi-duplex mode. In this case, you cannot speak at the same time the one you are talking to is speaking.

Use this alternative only if the Type 2 does not work properly (which might be the case in extremely noisy environments).

Handsfree Type 2

This is the standard setting. Handsfree Type 2 lets you talk in full duplex mode. This considerably increases the speech quality, as you do not have to wait until your turn to speak.

For Type 2 handsfree to work properly, your phone uses filters that adapt to the sound environment around the handsfree equipment. The adaptation might

take a few calls, and during this learning phase, the person called might hear a voice echo. However, this echo will disappear after a few calls.

Should the echo persist for a prolonged period, try the Type 1 handsfree instead.

To Set the Handsfree Type:



1 Select **SETTINGS/Handsfree**

2 If Type 1 is displayed press **YES** to toggle the selection to Type 2. If Type 2 is displayed press **YES** to toggle the selection to Type 1.

3 Press **YES** to accept the setting displayed

Select Answer Mode

This menu is available only in GSM mode. The submenu Answering mode includes two functions: Any key and Auto, which are useful when the phone is used with handsfree equipment.

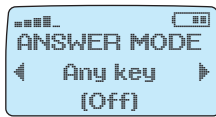
The Any Key Function

If the phone is used with handsfree equipment and this function is turned on, you can answer an incoming call by pressing any key except the **NO** key.

The Auto Function

If the phone is used with handsfree equipment in automatic answering mode, an incoming call is automatically answered after one ring signal.

To select Automatic Answering Mode:



- 1 Select **Answer mode** from the **SETTINGS** menu
- 2 Choose **Any key** or **Auto** using the navigation key
- 3 Press **YES** to change the setting (ON or OFF) or NO to accept the default
- 4 Press **YES** again to confirm your setting

Other Handsfree Related Settings

Apart from the above mentioned settings, you can change the following settings related to handsfree calling:

- ▶ Ring level
- ▶ Ear volume
- ▶ Ring type
- ▶ Key lock
- ▶ Back light

You can specify different settings for the two types of handsfree operation. Changing one will not affect the other.

To change a setting:

- 1 Connect the phone to the handsfree equipment
- 2 Change the setting according to the instructions in “Personalize Your Phone” on page 29, or “The Key Lock” on page 74 (the Keylock setting).

The Type 2 Ear volume setting has eight levels while Type 1 has only five. The four highest levels in Type 2 increases the clarity of speech, rather than the volume itself.

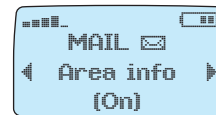
Area Information

The Short Message Service (SMS) is a personal service with messages specifically and exclusively directed to you. The Area Information is another type of text message which is sent to all subscribers in a certain cell of a network at the same time. This feature is only available in GSM.

For example, the information may be a local road report or a local taxi phone number.

Note! This feature may not be available in all networks.

Turning Area Information ON



- 1 From the **Mail** menu, select **Area info**
- 2 Press **YES**
- 3 Scroll to **On** and press **YES**

Area information messages will now be presented in your display.

Turning Area Information Off



- 1 From the Mail menu, select **Area info**
- 2 Press **YES**
- 3 Scroll to **Off** and press **YES**

Area Information Message Types

Each type of Area Information message is identified by a three digit code. At present the following message types exist:

| Code | A1 Message Type |
|------|-------------------------------------|
| 000 | Index |
| 010 | Flashes |
| 020 | Hospitals |
| 022 | Doctors |
| 024 | Pharmacy |
| 030 | Long-distance road reports |
| 032 | Local road reports |
| 034 | Taxis |
| 040 | Weather |
| 050 | District (base station identity) |
| 052 | Network information |
| 054 | Operator services |
| 056 | Directory enquiries (national) |
| 057 | Directory enquiries (international) |

| Code | A1 Message Type |
|------|-------------------------------|
| 058 | Customer care (national) |
| 059 | Customer care (international) |

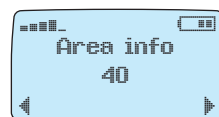
Your network operator will supply information about the Area Information services you can use.

The Area Information Message List

You can select the types of area information messages you wish to receive. In some cases, SIM cards are set up to store this list and the number of allowable entries varies from one SIM to another. If the list cannot be stored on the SIM card, it is stored in the phone and can contain up to 32 codes.

Inserting an Area Information Code

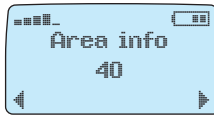
Access the Area Info list from the Mail menu.



- 1 From the **MAIL** menu, select **Area info**
- 2 Press **YES**
- 3 Scroll to **Edit list** and press **YES**

The digits to the left indicate the position in the list. You can scroll forward and backward through the list with the navigation key.

To insert a code:

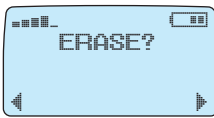


- 1 Scroll to the first empty location
- 2 Press **YES**
- 3 Enter the new code. (You only need to enter 40 for 040, since the phone will add the leading zero automatically.)

Erasing or Replacing a Code

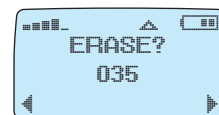


- 1 From the **MAIL** menu, select **Area info**
- 2 Press **YES**
- 3 Scroll to **Edit list** and press **YES**



- 4 Scroll to the code you wish to erase and press **YES**
- The message **Erase?** appears
- 5 Press **YES**

To replace the code:



- 1 Press the navigation key **RIGHT** once
- 2 Press **YES**
- 3 Enter the new code and press **YES**

Receiving Area Information

Area information messages are stored in the phone memory. The phone will only store one message per code for the first two types on your message list, so the previously stored message is erased.

To read the messages:



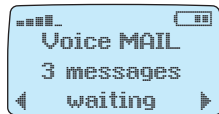
- 1 Make sure the **Area messages** function is turned on
- 2 **From the MAIL** menu, select **Area messages**
- 3 Scroll to a message
- 4 Press **YES**

Voice Mail

Some GSM network answering services allow callers to leave a voice message when you cannot or do not wish to answer your calls. You can call your answering service and listen to the recorded voice messages.

Note! This service is not available on all networks and may require a separate subscription. Voice Mail is not available in ACeS mode at this time but in the future you may receive a recorded message indicating voice mail has been received.

An ACeS Voice Mail number may be programmed onto your SIM by your operator. You can also store a Voice Mail number in your Phone Book.



When you receive a message, **Voice Mail** will display with the number of messages waiting for you. You may also hear an audible beep or a click, depending on the signal you have set in the **SETTINGS/Mail Alert** menu. See “Set Mail Alert” on page 57.

Accessing Voice Mail

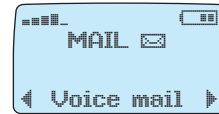
You can access the **Voice Mail** function from the **MAIL** menu.

If the number to your answering service can be retrieved from your Phone Book, the number is displayed in brackets. (This also applies if you have entered the number yourself at an earlier occasion and then turned the **Voice mail** function off.) If no number is available you can enter one. See “Changing the Answering Service Number” on page 57.

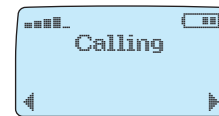
Calling the Answering Service

If the network has received and stored voice messages for you, you will receive a voice mail indicator, **Voice Mail** will display with the number of messages waiting for you and the **Voice mail** alert will sound.

To listen to your recorded messages:



1 From the **MAIL** menu, select **Voice mail** and press **YES**



2 The phone will automatically call your Voice mail service. Follow the instructions given to you by your operator's answering service.

For more information about the use of the answering service see the operating instructions supplied by your network operator.

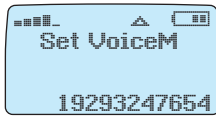
Storing the Answering Service Number

If your SIM card does not already have a voice mail number stored on it you can store one.

To store the number:



1 From the **MAIL** menu select **Voice Mail**



- 2 Select **Set VoiceM** and press **YES**
 - ▶ If a number appears, a number is already stored. To change it see “Changing the Answering Service Phone Number” below.
 - ▶ If no number appears you may store one
- 3 Key in the number and press **YES**

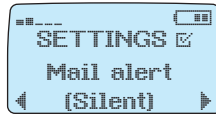
Changing the Answering Service Number

To change the number to the answering service:



- 1 From the **MAIL** menu, select **Set VoiceM**
- 2 Scroll to **New number** and press **YES**
- 3 Enter the new number and press **YES**

Set Mail Alert



- 1 From the **SETTINGS** menu, select **Mail Alert**
- 2 Scroll to **Tone, Click, or Silent**
- 3 Press **YES** to confirm your selection

The Phone Book

The Phone Book function in your phone lets you store and recall phone numbers. The Phone Book also keeps track of your last dialed numbers and, if you subscribe to the Calling Line Identification service, the last answered numbers. When you receive a call and the caller's number is in the Phone Book, the name will appear in the display.

Before You Start

Before you start creating your personal Phone Book, you need to know about the two memory storages, and how to store numbers with the international prefix. Also see “Entering Characters”.

Phone Book Memories

You can store the phone numbers in the following two places:

- ▶ SIM card memory
 - If you store your numbers in the SIM card memory, you can recall the numbers even when you change phones, such as when you insert your SIM card into another phone.
- ▶ phone memory
 - If you store your numbers in the phone memory, your numbers will always be available to you on your phone, even if you change SIM cards.

ACeS OG698 Phone User's Guide

Your SIM card determines how many numbers you can store in SIM memory and how long the numbers can be. You can store up to 99 phone numbers (1 – 99) in the phone memory.

In the Phone book menu, press # to enter the # character. Outside the Phone book menu, press and hold down # to enter the # character.

Fifteen of the numbers can be 80 digits long. The rest can be 20 digits long. You can attach 12-character-long names to all numbers stored.

Entering Characters

To enter names with the phone numbers:

- press the appropriate key, 1–9, 0 or #, repeatedly (without pausing) until the desired character appears in the display
- pause until the character appears in the display, then press the next key

| Pres s | to get... |
|-----------|-------------------------------|
| 1 | Space - 1 . , ? ! ; : \ " ' , |
| 2 | A B C 2 |
| 3 | D E F 3 |
| 4 | G H I 4 |
| 5 | J K L 5 |
| 6 | M N O 6 |

| Pres s | to get... |
|-----------|------------------------|
| 7 | P Q R S 7 |
| 8 | T U V 8 |
| 9 | W X Y Z 9 |
| 0 | 0 + () & @ / % = œ \$ |
| * | * p |
| # | # m |

For example, to enter the character

- A, press the numeric key **2** once
- B, press the numeric key **2** twice
- 2, press and hold down the numeric key **2**

Note! If you pause more than 60 seconds between entering characters, the phone will prompt you and return to the standby menu.

To Enter Lowercase Letters

Enter the letter, for example an 'A', and then press *. An 'a' appears. All letters will appear in lowercase until you press * again.

To Check the First Characters

If you enter more characters than can be seen in the display, the first characters will be replaced by the left arrow symbol. To check the first characters you entered:

- ▶ press the navigation key LEFT

Create Your Personal Phone Book

You can create a personal phone book containing the phone numbers you dial most often and the name associated with the numbers. You can easily recall the numbers by name or memory location.

Store a Name and Phone Number

- 1 Press the left navigation key to access the Phone book menu
- 2 Press the right navigation key until **Store** displays, and press **YES**. **Name:** displays.
- 3 Enter a name, and press **YES**

Use the numeric keys as described in "Entering Characters" on page 58.

Enter no: displays

- 4 Enter a number

Use the numeric keys as described in "Entering Characters" on page 58.

You now have four SAVE options:

- ▶ To save the number in the card memory, in the first empty position (displayed in the top right corner), press **YES**
- ▶ To save the number in the card memory, in a position you decide:
 - 1 Press the right navigation key
 - 2 Enter the position number
 - 3 Press **YES**

- ▶ To save the number in the phone memory, in the first empty position:
 - 1 Press the right navigation key
 - 2 Press the **#** key twice
 - 3 Press **YES**
- ▶ To save the number in the phone memory, in a position you decide:
 - 1 Press the right navigation key
 - 2 Press the **#** key once
 - 3 Enter the position number
 - 4 Press **YES**

Tip! If you entered a number in the scratch pad during a call, you can store it in the Phone Book by selecting **Store** from the Phone book menu while the number is displayed.

Overwrite Protection

If you try to store a phone number in a position which already contains a phone number, the message **Used Overwrite?** appears in the display. You then have the following options.

- ▶ To store the number in a different position:
 - 1 Press **NO**
 - 2 Enter the new position number
 - 3 Press **YES**
- ▶ To store the number in the selected position, thus erasing the old number, press **YES**.

When the Memories are Full

- ▶ If all the positions in the card memory are full, a position number will be suggested
- ▶ If both memories are full, no position number will be suggested.

To store the phone number:

- 1** Enter the number of an already occupied position
Overwrite? will display
- 2** Press **YES** to the prompt, erasing the old number

Store a Number With a Tone Signal Code

In order to perform banking by phone or control a phone answering machine, you will need to use codes sent as tone signals (also called DTMF or Dual Tone Multifrequency tones).

Anything entered after a pause is sent as DTMF tones from the Phone Book.

To store the number and the code in the Phone book:

- 1** Access the Phone book and select **Store**
- 2** Enter the phone number
See “Store a Name and Phone Number” on page 59.
- 3** Press and hold the * key until the pause character ‘p’ appears
- 4** Enter the code
- 5** If needed, insert another pause and another code
- 6** Save the number to a memory as described in “Store a Name and Phone Number” on page 59

Recall a Phone Number

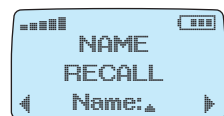
The Speed Dialing Function

Store important numbers in positions 1 – 9 in the card memory. You can use the Speed Dialing Function to dial them quickly by pressing the memory number it is stored to.

For example: To call John, whose number is stored in position 3 in the card memory:

- ▶ Enter the digit **3** and press **YES**

Recalling a Phone Number Using the Name



- 1** From the Phone book menu, select Name recall.
- 2** Enter the name you want to recall (or the first letters of it) using the numeric keys.

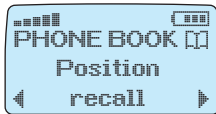
See “Entering Characters” on page 58. You do not have to enter the entire name.


- 3** When the correct name is displayed, press **YES**.
If the displayed name is not the required one, press the navigation key repeatedly until you find the correct name and number. Names are listed alphabetically.
- 4** Press **YES** to make the call.

Shortcut! Press LEFT from the empty standby display, enter the name, and press **YES**

Recalling a Phone Number Using the Position

If you know the memory position of a phone number, you can recall the number using the position number.



- 1 From the Phone book menu, select **Position recall**
- 2 Enter the position where the number is stored
 - ▶For card memory, enter the position number
 - ▶For phone memory, press and hold down the # key until the  icon appears and then enter the number.
- 3 Press **YES** to confirm

The name and phone number is now displayed.

If you entered the wrong position number, press the navigation key repeatedly until you find the correct phone number.
- 4 To call the number, press **YES**

Keeping Your Phone Book Up to Date

You can change the names and numbers in your Phone Book, or add and delete entries as needed

Edit an Entry in the Phone Book


You can access the Phone Book entry you wish to edit by using either the storage position number or the name.

To edit the entry using the position number:



- 1 From the Phone book menu, select **Edit**
 - 2 Enter the position number
- For a position in the card memory:
- 1 Press the left navigation key
 - 2 Enter the memory position number

For a position in the phone memory:

- 1 Press and hold down the # key until the  character appears and then enter the number.
- 2 Press **YES** to select the entry.

The name, the phone number, and the storage position are displayed

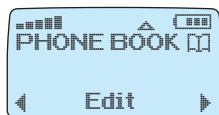
- 3 Press the navigation key RIGHT to select the row you wish to edit

The cursor is positioned to the right on the selected row.

Edit the row by pressing:

- ▶ the **CLR** key to erase letters or digits. Use the numeric keys to enter letters or digits
 - ▶ the navigation key to move the cursor left (or right when it is positioned in a row)
 - ▶ If needed, press the right navigation key to select another row and continue editing.
- 4 Press **YES** to save the changes

Edit the entry using the name



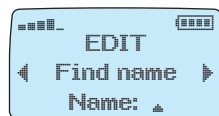
- 1 From the **Phone Book** menu, select **Edit**
- 2 Press the left navigation key
Find name is displayed in the middle row.
- 3 Enter the name for the entry you wish to edit, using the numeric keys

- 4 Press **YES** to select the entry

Tip! When you edit using the name, you cannot scroll between the entries. Only the first match is displayed. Instead, you might find it easier to recall the number by using the name to check the storage position, and then edit using the position.

Erasing a Phone Number

To erase a phone number from the **Phone Book**:

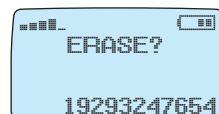


- 1 Recall the number
- 2 Press and hold **CLR**
Erase? displays.
- 3 Press **YES** to erase the displayed number

Note! You can also select **Erase** from the

Phone Book menu, enter the storage position, and press **YES** to erase the number.

If you want to erase all numbers from the phone memory (not possible for the card memory):

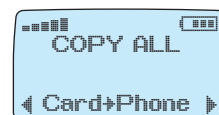


- 1 From the **Phone Book** menu, select **Erase all from Phone**
- 2 Press **YES**

Copying between Positions and Memories

As you fill up the **Phone Book** memories, you might want to move entries from one memory to another or between positions.

Copying All Numbers from Card Memory to Phone Memory:

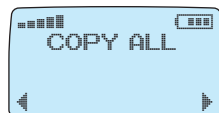


- 1 From the **Phone book** menu, select **Copy all**
- 2 Scroll to **Card->Phone** and press **YES**
- 3 Enter the number of the first position in the card memory you wish to copy and press **YES**

- 4 Enter the number of the first position in the phone memory you wish to copy to and press **YES**

- 5 Press **YES** to start copying

Copying All from Phone Memory to Card Memory



- 1 From the **Phone Book** menu, select **Copy all**

Communicating Via Modem

You can expand your communications by connecting your phone to a computer with a modem.

Connecting Using the Data Cable

Use the data cable provided to connect your phone to a computer.

Making Fax and Data Calls

To be able to use various communication services you also need appropriate software, for example a fax application, an external fax adapter, an e-mail application or an Internet browser.

You must have a subscription to these services. Check with your operator. Most phone network operators require that you have separate fax and data subscriptions. The default setting for the SETTINGS\Data menu is OFF for all phone modes. ACeS provides separate phone numbers for this service.

When a fax or data call is in progress, the phone display shows the call type, Fax or Data

Software-Initiated Fax and Data Calls

Fax and data calls are initiated from your computer.

To make a call first do the following:

- 1 Connect your computer to the phone

- 2 Start the software application on your computer

- 3 Follow the software prompts

Note! Make sure that you have selected the phone modem.

If your SIM allows it, you can make speech-then-fax calls. Initiate the speech part of the call from the CALLS/Speech then fax menu. Then, initiate the fax transmission.

Communicating Via Modem–ACeS Mode

In ACeS mode you can connect your phone to a computer to send and receive fax and e-mail messages, browse the Internet and much more.

Data Menus

Some of the features described in this section require that you have the **Data menus** in your phone turned on.

To turn **Data menus** on:



- 1 Display the **SETTINGS** menu

- 2 Scroll to **Data menu**

The current status of **ON** or **OFF** is shown

- ▶ If status is **OFF**
 - ▶ Press **YES**
- ▶ Press **YES** again to confirm the setting
- ▶ If status is **ON**, press **NO** to exit the menu

Making Fax and Data Calls

To make a fax or data call, initiate the call from your computer software. See “Software-Initiated Fax and Data Calls” on page 63.

Receiving Fax and Data Calls – Multi Numbering:

If your network and subscription support multi numbering, the phone will display the type of incoming call. There are two possible types apart from speech calls:

- ▶ Fax calls
- ▶ Data calls

The display shows the type of call.

To receive a fax or data call:

- 1** Connect your computer to the phone.
- 2** Answer the call from within the software application (if it does not answer automatically).

Receiving Fax and Data Calls - Single Numbering:

If your SIM allows it, you can receive different types of calls, data, voice or fax, to the same telephone number.

Set the next call type via the **CALLS/Next call type** menu.

Note! This setting will remain until you change it.

To receive a fax or data call:

- 1** Connect your computer to the phone.
- 2** Answer the call from within the software application (if it does not answer automatically).

Communicate Via Modem–GSM Mode

In GSM mode you can connect your phone to a computer to send and receive fax and data calls.

Data Menus

The data menus in your phone apply only to Satellite mode.

Making Fax and Data Calls

To make a fax or data call, initiate the call from your computer software. See “Software-Initiated Fax and Data Calls” on page 63.

Receiving Fax and Data Calls – Single Numbering:

If your SIM allows it, you can receive different types of calls, data, voice or fax, to the same telephone number.

Set the next call type via the **CALLS/Next call type** menu.

Note! This setting will remain until you change it.

To receive a fax or data call:

- 1** Connect your computer to the phone.
- 2** Answer the call from within the software application (if it does not answer automatically).

Short Message Service (SMS)

The SMS allows you to send and receive text messages consisting of up to 160 characters.

Text messages can be received when the phone is in standby mode, when the recipient is engaged in a call or when incoming calls are forwarded to another phone number. If the recipient's phone is turned off when a message is sent, a notifying message is displayed shortly after the phone is turned on.

Apart from sending standard messages to phones, your phone can fax messages (group 3 and 4), and send e-mails via SMS.

SMS is available in GSM mode only. You can, however, read, compose and save messages in Satellite mode. You can retrieve and send them when you return to GSM mode.

Two Memories

Your phone has two memories where text messages are stored: Message memory and SIM card memory.

The Messages Memory

If you do not want to read an incoming message at once, it is automatically stored in the Messages memory. If there are any unread incoming messages in the messages memory, a letter icon (icon) is displayed.

The Messages memory can hold up to 10 messages. When all memory positions are occupied, the oldest read message will be overwritten when a new message is received.

If the Messages memory becomes full with unread messages, new messages will automatically be stored in the SIM card memory. If the SIM card memory becomes full, the letter icon starts blinking.

Messages will remain in the Messages memory until you erase them, until you insert a different SIM card, or until read messages are overwritten by new messages. (See "Erasing a Phone Number" on page 62.)

The SIM Card Memory

If you receive an important message and want to make sure it is not erased from the messages memory, you can store it on your SIM card. Messages that are saved in the SIM card memory will remain there until you erase them, even if you transfer your SIM card to another phone.

Setting the Phone for Text Messaging

In order to reply to received messages you will need the phone number to your network. If it cannot be retrieved from your SIM card, you must specify the number yourself.



- 1** From the **MAIL** menu, select **Send messages**
- 2** Scroll to **Send Message/Options**. Press **YES**.
- 3** Scroll to **Serv cent** and press **YES**

- ▶ If the phone number of your service center is displayed, go to step 3
 - ▶ If there is no number in the display, enter the number of the service center, including the international prefix
- 4** Press **YES**
 - 5** Press **CLR** to return to standby mode

Your phone is now ready to send and receive messages.

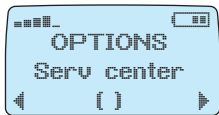
Note! Some network operators may only allow SMS to be sent within their own network.

Saving the SMS Center Number

You can save the SMS Center phone number and retrieve it from memory when you need it. To save the number:



- 1** From the **MAIL** menu select **Send Message/Options**



- 2** Select **Options/Serv Center**
 - ▶ If a number appears, the number has already been saved.
 - ▶ If no number appears you may save one
- 3** Enter the number and press **YES**

Setting Duration of Message

If your message cannot be delivered you can instruct your Service Center to repeat the message each hour, every 12 hours, once each day, once a week or the maximum period (determined by your service provider).



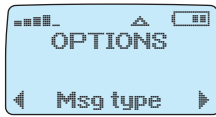
- 1** From the **MAIL** menu, select **Send messages. New** appears.
- 2** Scroll to **Options**, using the navigation key and press **YES**
- 3** To select the **Valid per** option, press **YES**
- 4** Scroll to the desired duration and press **YES**

Changing Message Types

Your network operator's Service Center may be able to convert a text message into a format (fax, telex, voice, etc.) that suits the equipment that is going to receive the message. Consult your operator for further information about the formats you can use.



- 1** From the Mail menu, select **Send messages**



- 2 Scroll to **Options**, using the navigation key, and press **YES**
- 3 Scroll to the **Msg type** option and press **YES**
- 4 Select the required format, using the navigation key, and press **YES**

Note! Standard means an ordinary text message (SMS) to other phones. Standard is the default message type.

Composing and Sending Messages

To compose your message, enter characters using the numeric keys.

Press the appropriate key, 1–9, 0 or #, repeatedly until the desired character appears in the display. See “Entering Characters” on page 58.

If there is a pause of more than 60 seconds between entering characters, the phone will return to the standby menu.

Sending Messages



- 1 From the **Mail** menu, select **Send messages**. **New** appears.
- 2 Press **YES**. An empty display appears.
- 3 Enter your message (see above “How to Enter Letters”).

- 4 You can scroll through the message text with the navigation key and erase characters to the left of the cursor or insert characters in the cursor's position.
- 5 Press **YES**. **Request reply?** appears.
- 6 If you want a to reply to the message, press **YES**. If not, press **NO**.
- 7 Enter the receiver's phone number or recall it from the phone book
 - To send the message now, press **YES**
 - To store the message for later use, press **NO**

The message is now stored in the messages memory

If you decide to send the message later, the message is labelled **To send** instead of **Sent** when you access the message in the **Sent** messages menu.

The same procedure is used regardless of what type of message (e-mail, fax, etc.) you are sending.

Note! **Reply** and **Sent** are not available in satellite mode.

Reading a Message

When you receive a message, a signal sounds and the display informs you of it. The indicator light on the top of the phone blinks rapidly green.

- If you want to read the message at once, press **YES**
- If you want to read the message later on, press **NO**. The message will be stored in the Messages memory and a letter icon is shown to the left at the bottom of the standby display. Press any key (0-9, *, #) to clear the **New Message** message.

- ▶ If you pressed **YES** you will see the first three lines of the message, showing you who the message is from and when it was received
 - ▶ If the number of the incoming call matches one of your phone book entries, the name will be presented (6 letters or less)
 - ▶ If no name is associated, the number will be presented. **New** stands for a new unread message
 - ▶ If the message is older than 24 hours, the time will be replaced with the date the message arrived. However, you can toggle between the date and time by pressing the * key.
- 1** Press **YES** to read the first line of the message.
 - 2** Scroll through the message using the navigation key. **RIGHT** takes you forward and **LEFT** takes you backward through the message.
 - ▶ To move three lines forward, press **3**
 - ▶ To move three lines backward, press **1**
 - 3** Press the navigation key to the left to return to the beginning of the message.

The message **Reply?** appears after the last line of the message. If the caller wants you to reply, the displayed message will say **Reply Requested, Reply?**, provided your network supports this.

Replying to a Message

- 1** To reply to a message, press **YES**
- 2** To enter your message, press **YES** and proceed as described in Composing and Sending Messages.
- 3** If you do not want to reply, press **NO**

If there is a phone number in the received message, you can call it by simply pressing **YES**. After the number has been called, the message is considered read and it remains in the Messages memory.

Embedded Numbers in SMS

When sending a message to another wireless phone, or when asking someone to send a message to your phone, follow the guidelines listed below to ensure that the phone retrieves the entire number from the message, displays it, and allows the phone user to dial the number by pressing **YES**.

Note! The phone is only capable of receiving numbers embedded in a message if the network operator has activated the service.

A phone number enclosed within double quotation marks has the highest probability of being recognized (e.g. "919-555-1212").

Other ways to write the phone number within messages are:

- ▶ (919) 555-1212
- ▶ 919-555-1212
- ▶ 012-123 45 67
- ▶ 12 34 56
- ▶ (02) 11 22 33

Include the international dialing code, area code, and area prefix as part of the number to help in the call back process. The receiver of the message has the option of editing a number before calling back.

Note! If the number embedded in the SMS matches a phone book entry, a name will be associated with it.

Press **YES** to call the embedded name/number. If there are multiple numbers in the display, the first number will be dialed.

Erasing a Message

If you do not want to reply to a message:

- 1 Press **NO**
The message **Erase?** appears
- 2 To erase the message from the Messages memory, press **YES**
The next message in the message list will display

Note! You can press **CLR** anywhere within the menu that handles your message to erase it. When the message **Erase?** appears, press **YES**.

Storing a Received Message

All incoming messages are stored temporarily in the messages memory until the memory space is needed for new messages. If you may receive an important message that you need to store safely you should store it in the SIM card memory.

When you reach the end of the message **Erase?** appears.

- 1 Press **NO**
The message **Store?** appears.
- 2 To store the message in the SIM card memory, press **YES**.
The message is automatically erased from the Messages memory.

The display now shows the position of the message. For example, if it is the third of five that it is possible to store.

If you do not want to store the message in the SIM card memory, press **NO**. The message will remain in the phone's Messages memory.

Tip! You can also store messages you have composed yourself on the SIM card.

Reading Stored Messages



- 1 From the **MAIL** menu, select **Read messages** and press **YES**
- 2 Scroll with the navigation key until you find the message you are looking for

- ▶ **New** stands for a new unread message
 - ▶ **Old** stands for a read message
 - ▶ **Sent** stands for a sent message
- 3 Press **YES**

If there is a * in front of the message, the message resides on the SIM card.

Calling a Phone Number in a Message

If a message contains a phone number, you can call it by pressing **YES** while it is displayed

After the number has been called, the message is considered read and it remains in the Messages memory.

Frequently Used Messages

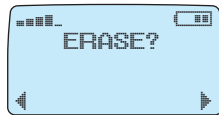
If you have one or more standard messages you use often, you can store them on the SIM card, to be reused whenever you want.

Storing Frequently Used Messages

To make sure your standard messages are not erased when the messages memory becomes full, you should store them in the SIM card memory. After saving the message in the messages memory proceed as follows:



1 From the **MAIL** menu, select **Read messages**. The messages saved in your Messages memory appear



- 2** Scroll to the message you wish to store in the SIM card memory and press **YES**
- 3** Press **YES** again. **Erase?** appears.
- 4** Press **NO**. **Store?** appears
- 5** Press **YES**

The message is now stored in the SIM card memory.

Sending Stored Messages



1 From the **MAIL** menu, select **Send messages**. **New** appears.

2 Scroll to the message you wish to send, using the navigation key, and press **YES**

Now you can edit your message.

3 When the message is ready to be sent, press **YES**. **Request reply?** appears.

- ▶ If you want the person you called to reply to the message, press **YES**
- ▶ If not, press **NO**

4 Enter the phone number or recall it from the phone book.

5 Press **YES** to send the message



Security

Your phone is protected by two locks:

- ▶ a PIN code for the SIM card
- ▶ a phone lock code for the phone itself

The SIM Card Lock

When you purchase your phone, you receive a PIN code (Personal Identity Number) that is used to unlock your SIM card if your SIM card is locked. Every time you turn the phone on, you are prompted to enter the PIN code.

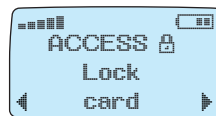


- 1 Enter the PIN Code
- 2 Press **YES**

Locking the SIM Card

You can lock your SIM card to prevent unauthorized use of our phone.

To lock the SIM card :



- 1 Select **Lock card** from the **Access** menu
- 2 Press **YES**
- 3 Enter your PIN code and press **YES**

The message **Locked** confirms that the card lock is now activated.

Note! This function only applies if your subscription allows you to deactivate the card lock.

Unlocking the SIM Card

To unlock the SIM card, select **Unlock card** from the **Access** menu.



- 1 Press **YES**
- 2 Enter your PIN code and press **YES**

The message **Unlocked** confirms that the card lock is now deactivated.

SIM Card Blocked



If the PIN is entered incorrectly three times in succession, the SIM card will be blocked. This is indicated by the message **Card blocked / Unblock?** Should this happen, you will need to unlock the SIM card using the procedures below.

Unlocking the SIM Card

To unlock the SIM card if you have entered the wrong PIN (or PIN2) code three times in succession:

- 1 Press **YES**

2 Enter your PUK (or PUK2) code (look in the information from your network operator)

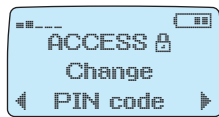
3 Enter a new 4-to-8 digit PIN (or PIN2) code and press **YES**

4 Reenter the new PIN (or PIN2) code to confirm it and press **YES**

Warning! If you enter the wrong PUK code ten times in succession, your card will be permanently blocked. If this happens, contact your network operator for a new SIM card.

Changing the PIN Code

You need to change your PIN code on a regular basis to prevent unauthorized use of your subscription. To change your PIN code:



1 From the **ACCESS** menu, select **Change PIN code**.



2 Enter the old (current) PIN code and press **YES**

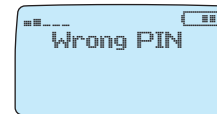


3 Enter the new PIN code and press **YES**



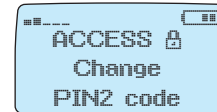
4 At the prompt **Repeat new PIN** enter the new PIN a second time to verify it

- ▶ The message **New PIN** confirms that the PIN code has been changed.
- ▶ If the message **Matching error** appears, the new PIN was entered incorrectly
- ▶ If the message **Wrong PIN** appears, followed by **Enter Old PIN** the old PIN was entered incorrectly



Changing the PIN2 Code

Depending on the network you use, some services require a second PIN code, the PIN2 code. If your SIM allows it, you can change your PIN2 code.



1 Select **Change PIN2 code** from the **ACCESS** menu

2 Follow the same procedure as described in “To Change the PIN code”

The Phone Lock

The phone lock protects the phone against unauthorized use in the event of theft. It is independent of the SIM lock. When turned on, the phone will check the phone lock after the SIM lock has been checked and only if the SIM card is unlocked. The phone lock is not activated when you purchase the phone.

As soon as possible you should do the following:

- ▶ activate the phone lock
- ▶ change the factory-programmed security code of 0000 to any 3-to-8 digit personalized code

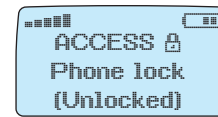
There are two levels of locking the phone:

- ▶ Full Lock
 - If Full Lock is activated and the phone is turned on, the message **Phone locked** is displayed, then the prompt **Enter lock code**. Enter the security code and press **YES**.
- ▶ Autolock
 - If the Autolock is activated, you must enter the security code every time the SIM card is replaced. You will be prompted for the code.

Changing the Security Code

From the **ACCESS** menu, select **Phone lock\Change code** and follow the same procedure as when changing the PIN code.

Locking and Unlocking the Phone



1 From the **ACCESS** menu, select **Phone lock** and press **YES**

2 Select the current setting **Locked/Unlocked** and press **YES**



3 Press the navigation keys to select **Locked/Unlocked, Full lock** or **Auto lock**

4 Enter your lock code and press **YES**

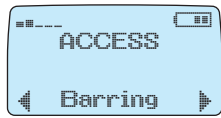
Call Barring Password

The Call Barring feature is supported by your phone, but it is dependent on your network and/or the network you are roaming in. Call Barring is a security feature that prevents someone from making unauthorized calls on your phone. For how to use this feature see “Baring Calls” on page 45.

To ensure that a call Barring is not changed by someone else, a password, which comes with your subscription, is necessary in order to activate or cancel a call type that is barred.

Changing the Barring (Restrict) Password

The password for the Barring service comes with your subscription. You can easily change the password as often as you like. .



- 1 Select **Barring** from the **ACCESS** menu
- 2 Select the **Change password** option
- 3 Enter the old (current) password and press **YES**



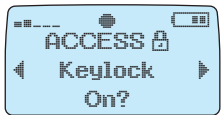
- 4 Enter the new password and press **YES**
 - 5 Enter the new password a second time and press **YES**
- The message **Please wait** appears followed by a message that confirms that the password has been changed.

The Key Lock

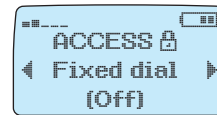
The Key Lock feature helps you to avoid accidental dialing if you keep your phone in a pocket. A key icon in the display informs you that the keypad is locked.

Calls to the emergency number 112 (or an alternate emergency number, where applicable) can be made when the keypad is locked. If the phone's alarm sounds, you can turn it off by pressing any key.

To lock the keypad:



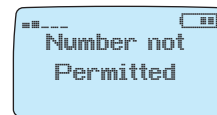
- 1 From the **ACCESS** menu press **YES**. **Key lock on?** is displayed
- 2 Press **YES** to activate the key lock



If you press a key while the keypad lock is on, **Keylock/Enter < to unlock** is displayed. Press the left navigation key to unlock the keypad.

Fixed Number Dialling

Fixed Number Dialling restricts outgoing calls. It requires a SIM card that allows fixed numbers to be stored. The fixed numbers are protected by the PIN2 code.



The Fixed Dialling function allows calls to be made only to fixed numbers stored on the SIM card. If an attempt is made to call other numbers, the message **Number not permitted** appears in the display.



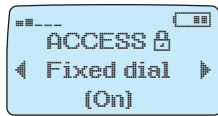
You can store partial numbers, for example an area code, or an area code followed by the first digits common to several numbers. Storing 919 472 allows calls to be made to any numbers in the 919 area code with a 472 prefix.

Wild Card

You can also store Fixed Number Dial numbers by replacing part of the number with a wildcard. To enter a wildcard, press and hold down the # key. Any digit is allowed in the wildcard position (the wildcards 0-9, *, or # can be used).

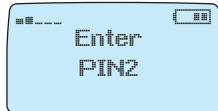
You can still make calls to the emergency number 911 (or 112 where applicable) and the Service Center of the cellular network.

Activating Fixed Dialing



- 1 From the **ACCESS** menu, select **Fixed dial**
- 2 Scroll to **On** with the navigation key and press **YES**
- 3 Enter the **PIN2** code and press **YES**

Canceling Fixed Dialing



- 1 From the **ACCESS** menu, select **Fixed dial**
- 2 Scroll to **Off** with the navigation key and press **YES**
- 3 Enter the **PIN2** code and press **YES**

Storing Fixed Numbers



- 1 From the **PHONE BOOK** menu, select **Fixed dial**
- 2 Scroll to **Store** with the navigation key and press **YES**



- 3 Enter the **PIN2** code and press **YES**

Enter the name (optional) and the fixed number in the same way as when storing an ordinary phone number.

Editing a Stored Fixed Number



- 1 From the **Phone book** menu, select **Fixed numbers**
- 2 Scroll to **Edit** with the navigation key and press **YES**

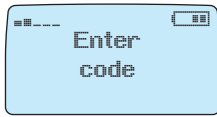
After you have entered the PIN2 code you can change the position number, the name or the fixed number in the same way as with an ordinary phone number.

Calling Cards Security

To Change Calling Card Security Codes:



- 1 From the **ACCESS** menu, select **Call cards security** and press **YES**
- 2 Enter your security code and press **YES**. The default code is 0000.
- 3 Scroll to **Change code** and press **YES**



4 Enter your new code and press **YES**. The code can consist of four to eight digits.

5 Confirm your new code, when **Repeat new code** appears in the display, and press **YES**

Your security code is now changed.



Set **CALLS/SIM Verification Info** to **ON** to have your phone display the message "SIM Verified" when you make a call, and your subscription is verified by the network.

Call Security Information

To see if a call connection is secure (encrypted), set Security Info ON.



1 From the **CALLS** menu select **Security Info**. The present status will display.

2 If **OFF** is displayed, press the navigation key to the right to turn it **ON**



3 Press **YES** to confirm

The phone will then display the message "Security On" at the beginning of an encrypted call. Otherwise, the phone will display "Security Off". Any change of the call encryption status will be indicated in the display.

This feature can be turned OFF via your SIM card.

SIM Verification Information

A serving network can verify the subscription information on your SIM card. Networks do so to enhance safety and to fight fraud.

Safe and Efficient Use

Since its introduction in the mid 1980s the mobile phone is one of the most exciting and innovative products ever developed. Your phone can help you to stay in touch with your office, your home, emergency services and others.

Efficient Phone Operation

To receive optimum performance with minimum power consumption hold the phone as you would any other telephone. While speaking directly into the mouthpiece, angle the antenna in a direction up and over your shoulder.

Do not hold the antenna when the phone is in use. Holding the antenna affects call quality, may cause the phone to operate at a higher power level than needed and shorten talk and standby times.

Safe Phone Operation

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- ▶ Get to know your wireless phone and its features such as speed dial and redial.
- ▶ When available, use a handsfree device.
- ▶ Position your wireless phone within easy reach

- ▶ Suspend conversations during hazardous driving conditions or situations
- ▶ Do not take notes or look up phone numbers while driving
- ▶ Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic
- ▶ Do not engage in stressful or emotional conversations that may be distracting
- ▶ Use your wireless phone to call for help
- ▶ Use your wireless phone to help others in emergencies
- ▶ Call roadside assistance or a special wireless non-emergency assistance number when necessary
- ▶ Give full attention to driving
- ▶ Pull off the road and park before making or answering a call if driving conditions so require

Exposure to Radio Frequency Energy

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

In August, 1996, the Federal Communications Commissions (FCC) adopted exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both US and international standards bodies:

- ▶ ANSI C95.1 (1992)*
- ▶ NCRP Report 86 (1986)*
- ▶ ICNIRP (1996)*

ACeS OG698 Phone User's Guide

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

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

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

Antenna

- Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.
- Hold the phone as you would any other telephone, with the antenna pointed up and over your shoulder.
- Do not hold the antenna when the phone is in use. Holding the antenna affects call quality, may cause the phone to operate at a higher power level than needed and shortens talk and standby times.

Caution! The detached antenna should be handled with care. It has a sharp metallic connector that could scratch, cut or puncture something or someone.

Electronic Devices

Most modern electronic equipment, such as that in hospitals and automobiles, is shielded from RF energy. However, certain electronic equipment may not be shielded against RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference

If you suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interferences, you may want to consult your service provider (or call the customer service line to discuss alternatives).

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone **OFF** in health care facilities when posted signs instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external signals.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Vehicles Equipped With Air Bag

An air bag inflates with great force. Do Not place installed or portable wireless equipment in the area over the airbag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Additional Tips

- ▶ Posted Facilities
 - Turn your phone **OFF** in any facility where posted signs instruct you to do so
- ▶ Aircraft
 - Regulations in most nations prohibit using your phone while in the air.
 - Switch OFF your phone before boarding an aircraft.
- ▶ Children

Do not allow children to play with your phone since they could hurt themselves or others, or accidentally damage the phone. Your phone may contain parts that can be detached, causing a child to choke or physically injure himself.

- ▶ Blasting Areas
 - To avoid interfering with blasting operation, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.
- ▶ Potentially explosive atmospheres
 - Turn your phone OFF when you are in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.
 - Areas with a potentially explosive atmospheres are usually clearly marked. They include fuelling areas such as gasoline stations; boats; fuel or chemical facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, and any other area where you would normally be advised to turn off your vehicle engine.

Product Care

The nickel metal hydride (NiMH) battery packaged with your phone is not fully charged at the time of purchase. Your battery must be charged before using it.

Battery Use and Care

It does not, however, need to be conditioned as do nickel cadmium type batteries, often sold as accessories from other suppliers. You may charge the NiMH battery as often or as long as you wish without losing performance.

See “The Battery” on page 6 and “Charging the Battery” on page 7 for details on installing and charging the battery.

A rechargeable battery has a long service life if treated properly.

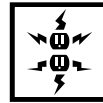
- Do not leave your battery where it may be subjected to extremely hot or cold temperatures. This could reduce the battery's capacity.
- Do not let the metal contacts on the battery touch another metal object such as keys in your pocket. This could short-circuit and damage the battery.
- Do not attempt to take a battery apart.
- Do not expose a battery to open flame. This could cause the battery to explode.
- Turn your phone OFF before removing the battery.

Recycling Your Battery

Your phone manufacturer is a member of the Rechargeable Battery Recycling Corporation (RBRC), a non-profit service organization designed to assist in the recycling of rechargeable batteries. Many areas require the recycling of rechargeable batteries. In the U.S., call 1-800-822-8837 to find out how to recycle your battery. Outside the U.S., contact your local retailer for recycling instructions.









































Care of the Phone

- Do not expose your mobile phone to moisture or extreme temperatures
- Do not use any other accessories but ACeS originals. Failure to do so may result in loss of performance, fire, electric shock or injury, and will void the warranty.
- Do not attempt to disassemble the phone. Doing so will void the warranty. This phone does not contain consumer serviceable components. Service should only be performed by Authorized Service Centers.
- Do not allow objects to fall or liquids to spill on the phone or the accessories
- Connect AC (power supply) only to the power sources listed on the product
- To reduce risk of damage, remove the electrical cord from the outlet by gently pulling the AC adapter out. Never pull on the electrical cord.
- Plug up the adapter and electric cord where it will not be stepped on, tripped over, or otherwise damaged.
- To reduce the risk of electric shock, unplug the unit from the power source before attempting to clean it. After it is unplugged, use a soft cloth for cleaning. If additional cleaning is required, use a soft cloth lightly dampened with water.



DANGER! Never alter the AC cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in an electric shock.

Indicators in the Display

| Symbol | Indicates condition | Symbol | Indicates condition | Symbol | Indicates condition | Symbol | Indicates condition |
|---|---------------------|---|-------------------------|---|----------------------|---|-----------------------|
|  | Battery empty |  | Network signal (none) |  | Roam |  | Scroll for selections |
|  | Battery strength |  | Network signal strength |  | Partial Sat service |  | Scroll for selections |
|  | Battery strength |  | Network signal strength |  | Full Sat service |  | Information |
|  | Battery strength |  | Network signal strength |  | No Sat service |  | Alarm set |
|  | Battery full |  | Network signal strength |  | Call divert on |  | Timer |
|  | Battery charging |  | Network signal (full) |  | Calls |  | Settings |
|  | Ericsson logo |  | EEPROM phonebook |  | Phone Book |  | Scroll text left |
|  | Phone locked |  | UT to UT |  | Unsent (Queued) mail |  | Scroll text right |
|  | Phone unlocked |  | Scroll text down |  | New mail |  | SIM memory |
|  | Network |  | Scroll text up |  | Voice mail |  | Tools |

List of Terms

| Term | Function/Description | Term | Function/Description |
|-------------|---|----------------|---|
| ARFCN | Absolute Radio Frequency Channel Number | ILR | Inter-working Location Register |
| ALS | Alternate Line Service | NAM | Number Assignment Module |
| AMPS | Advanced Mobile Phone Service | OTA | Over-the-Air |
| AMPS mode | The phone is searching for or has acquired an AMPS network. | PLMN | Public Land Mobile Network |
| ARFCN | Absolute Radio Frequency Channel Number | PSMN | Public Satellite Mobile Network |
| CFU | Call Forwarding Unconditional | RSSI | Received Signal Strength Indicator |
| CLIP | Calling Line Identification Presentation | SAT | Satellite system mode, refers to ACeS |
| CLIR | Calling Line Identification Restriction | satellite mode | The phone is searching for or has acquired a satellite network. |
| CSP | Customer Service Profile | SIM | Subscriber Identity Module |
| DDM | Dialed-digits memory | SMS | Short Messaging Service |
| EEPROM, E2 | Electrically Erasable Programmable Read-Only Memory | SS | Supplementary Services |
| ELMA | Ericsson Lockheed-Martin Air Interface | TBD | To be determined |
| ESN | Electronic Serial Number | UDUB | User Determined User Busy |
| ETSI | European Telecommunications Standard Institute | UT | User terminal |
| FDN | Fixed Dialing Numbers | UT – UT | User terminal-to-user terminal connection (Mobile-to-Mobile) |
| HPA | High Penetration Alert | | |

Spotbeam Map

Notice: Future versions of this manual will contain a spotbeam map on this page.

