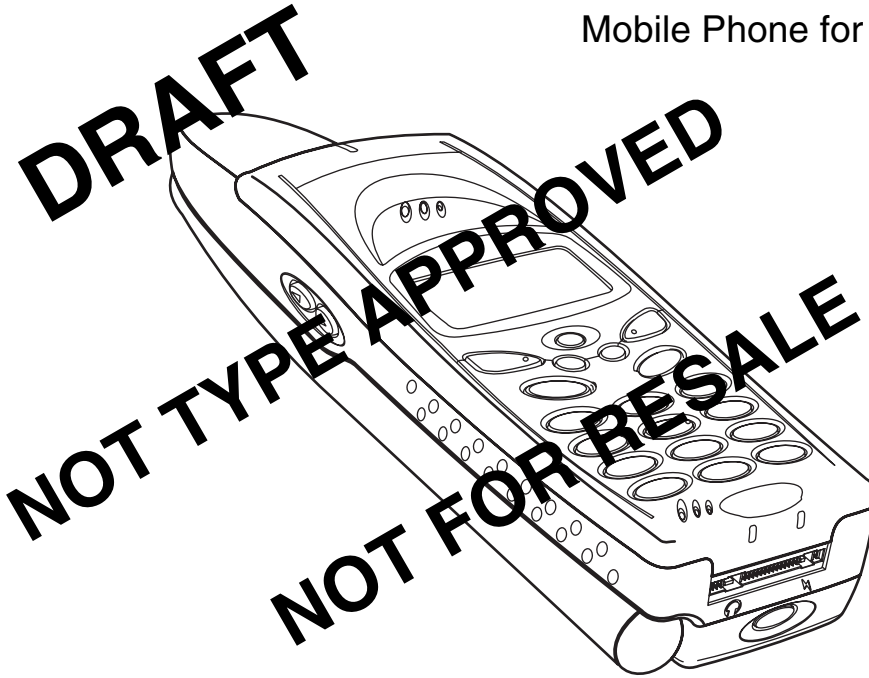


Ericsson R290 Satellite

Mobile Phone for the Globalstar/GSM Network

User's Guide



This manual describes Ericsson R290 Satellite

First edition (December 1999)

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INNOVATRON PATENTS

Safety Instructions

Product Care and Maintenance

Your mobile phone is a highly sophisticated electronic device. To get the most out of your mobile phone read this text about product care, safe and efficient use.

Product care

- Keep your mobile phone dry.
- Avoid exposing your mobile phone to extreme hot or cold temperatures.
- Avoid placing your mobile phone close to lit candles, cigarettes, naked flames or any heat source.
- As with all sophisticated electronic devices rough treatment could damage your mobile phone.
- Only use a soft damp cloth to clean your mobile phone.
- Do not paint your mobile phone as the paint could obstruct the earphone, microphone or any moveable parts and prevent normal use.
- Do not attempt to disassemble your mobile phone, a broken warranty seal will void the warranty. The phone does not contain consumer serviceable components. Service should only be performed by Certified Service Partners.
- Only use Ericsson original accessories. Failure to do so may result in loss of performance, damage to the phone, fire, electric shock or injury, and will void the warranty.
- Treat your mobile phone with care, keep it in a clean and dust free place.

Antenna Care

- To avoid impaired performance please ensure your mobile phone's antenna is not bent or damaged.

- Do not remove the antenna yourself. If your phone's antenna is damaged please take it to a Certified Service Partner.
- Unauthorised antenna modifications, or attachments could damage the phone and may violate the appropriate regulations causing loss of performance and radio frequency (RF) energy above the recommended limits.

Efficient Phone Operation

To enjoy optimum performance with minimum power consumption please:

- 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. If the Globalstar antenna is deployed, it should be vertical during a call.
- 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.

Guidelines for Safe and Efficient Use

General

Your mobile phone is a radio transmitter and receiver. When the phone is turned on, it receives and transmits radio frequency (RF) energy. Depending on the type of mobile phone you possess, it operates on different frequency ranges and employs commonly used modulation techniques. The system that handles your call when you are using your phone controls the power level at which your phone transmits.

Exposure to Radio Frequency (RF) Energy

The International Commission on Non-Ionising Radiation Protection (ICNIRP), supported by the World Health Organisation (WHO), published during 1996 a statement and in 1998 guidelines which set

recommended limits for exposure to RF fields from handheld mobile telephones. According to ICNIRP statement, which is based on the available body of research, there is no evidence that mobile terminals meeting the recommended limits can cause any adverse health effects. All Ericsson telephones conform to the ICNIRP guidelines and other international exposure standards, such as:

- CENELEC European Pre-standard ENV50166-2:1995 (Europe)
- ANSI/IEEE C95.1-1992 (USA, Asia-Pacific)
- AS2772.1 – 1990/NZS 6609.1:1990, Amdt. No.1 (Australia, New Zealand)

Driving

Check the laws and regulations on the use of mobile phones in the areas where you drive. If you are going to use your phone while driving, please:

- Give full attention to driving.
- Use an Ericsson Vehicle Handsfree Solution, if available. Law in many countries requires vehicle Handsfree Solution. Read the installation instructions carefully before installing a vehicle Handsfree Solution.
- Pull off the road and park before making or answering a call if driving conditions so require.

RF energy may affect some electronic systems in motor vehicles such as car stereo, safety equipment etc. In addition, some vehicle manufacturers do not allow use of mobile phones, unless the installation is supported by a handsfree kit with an external antenna, in their vehicles. Check with your vehicle manufacturer's representative to be sure that your mobile phone will not affect the electronic systems in your vehicle.

Vehicles Equipped with an Air Bag

An air bag inflates with great force. Do not place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Electronic Devices

Most modern electronic equipment, for example equipment in hospitals and cars, is shielded from RF energy. However, certain electronic equipment is not, therefore:

Do not use your mobile phone near medical equipment without requesting permission.

Mobile phones may affect the operation of some implanted cardiac pacemakers and other medically implanted equipment. Pacemaker patients should be aware that the use of a mobile phone very close to a pacemaker might cause the device to malfunction. Avoid placing the phone over the pacemaker, i.e. in your breast pocket. When using the phone, place it at your ear opposite the pacemaker. If a minimum distance of 15 cm is kept between the phone and the pacemaker, the risk of interference is limited. If you have any reason to suspect that interference is taking place, immediately turn off your phone. Contact your cardiologist for more information.

Some hearing aids might be disturbed by mobile phones. In the event of such disturbance, you may want to consult your service provider, or call the customer service line to discuss alternatives.

Aircraft

- Turn off your mobile phone before boarding any aircraft.
- Do not use it on the ground without crew permission.

To prevent interference with communication systems, you must not use your mobile phone while the plane is in the air.

Blasting Areas

Turn off your mobile phone when in a blasting area or in areas posted "turn off two-way radio" to avoid interfering with blasting operations. Construction crews often use remote control RF devices to set off explosives.

Potentially Explosive Atmospheres

Turn off your mobile phone when in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fuelling areas, such as petrol stations, below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle, which contains your mobile phone and accessories.

Power Supply

- Connect AC (Power supply) only to designated power sources as marked on the product.
- To reduce risk of damage to the electric cord, remove it from the outlet by holding onto the AC adapter rather than the cord.
- Make sure the cord is positioned so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.
- To reduce risk of electric shock, unplug the unit from any power source before attempting to clean it.
- The charger must not be used outdoors or in damp areas.

Children

Do not allow children to play with your mobile phone since it contains small parts that could become detached and create a choking hazard.

Emergency Calls

IMPORTANT!

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

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

Battery Information

New Batteries

The battery supplied with your phone is not fully charged.

Battery Use and Care

A rechargeable battery has a long service life if treated properly. A new battery, or one that has not been used for a long period of time could have reduced capacity the first few times it is being used.

- The talk and standby times depend on the actual transmission conditions when using the phone.
- Use only Ericsson original batteries and the AC/DC adapter supplied with your battery charger. Using non original Ericsson accessories could be dangerous and will void your phone warranty.
- Do not expose your battery to extreme temperatures, never above + 140 degrees F (+60 degrees C). For maximum battery capacity use your battery at room temperature. If the battery is used in cold temperatures the battery capacity will be reduced.
- The battery can only be charged when the temperature is between 41 degrees F (+5 degrees C) and + 113 degrees F (+ 45 degrees C).
- Turn off your phone before removing the battery.

- Do not attempt to take a battery apart.
- Do not let the metal contacts on the battery touch another metal object. This could short-circuit and damage the battery.
- Do not expose a battery to open flames. This could cause the battery to explode.
- Do not expose a battery to liquid.
- Do not use the battery pack if it shows signs of rust, overheating, leakage or changes in colour or shape.
- Do not puncture the battery pack or expose it to strong shock.
- Do only use the battery for the intended purpose.
- Do not allow the battery to be placed into the mouth. Battery electrolytes may be toxic if swallowed.


Recycling Your Battery

Your phone manufacturer is a member of the Rechargeable Battery Recycling Corporation (RBRC), a non-profit public service organization designed to assist in the recycling of rechargeable batteries. Many areas require 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.

Please note!

Some of the services mentioned in this manual are not supported by all networks or by all service agreements. This also applies to the International Emergency Number 112.

Please contact your network operator or service provider if you are in doubt whether you can use a particular service or not.

The  symbol on our products signifies that they have been certified according to the EMC directive 89/ 336/ EEC, the Telecommunications directive 91/ 263/ EEC, and the Low Voltage directive 73/ 23/ EEC when applicable. The products fulfil the requirements according to the following standards:

Cellular Phones and Accessories in Combination:

- ETS 300 342- 1 EMC for European digital cellular telecommunications.

Accessories Without Direct Connection to a Cellular Phone:

- EN 50081 Electromagnetic compatibility, Generic Emission Standard, and EN 50082 Electromagnetic compatibility, Generic Immunity Standard.

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Introduction

Thank you for choosing the R290 satellite/cellular phone, the revolutionary mobile phone that helps you keep in touch with the rest of the world. Read this handbook thoroughly to use your phone safely and correctly.

The R290 hand-held satellite/cellular phone, hereafter throughout this manual referred to as “your phone”, literally puts the world at your fingertips. 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 landline telephone systems or cellular services. When you make a call your phone transmits a signal to a constellation of 48 satellites, in orbit 1414 kilometers (900 miles) above Earth. Call signals are sent back to earth through regional gateways and enter landlines to your service provider who forwards the signal to the number you dialed. This simple method of reflecting signals to and from the Globalstar satellites ensures that Globalstar offers a seamless, dependable network with consistent high-quality phone transmission worldwide.

Your phone is designed to roam remote areas of the world with you, whether you are travelling for international business, for pleasure, or in an emergency situation. 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 operates in two modes:

- Globalstar mode - allowing you to place satellite calls from remote areas.

- GSM mode - providing reliable, less expensive cellular service when available.

Your mobile 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.

This guide introduces you to your phone and shows you how to get the most out of it.

NOTE:

Some features and menus are service provider dependent

About Your Phone

Globalstar/GSM 900

The R290 phone operates in either Globalstar satellite or GSM 900 cellular mode.

Operators & Subscriptions

Before you can use your phone you must obtain a dual-mode subscription to a network. The services included in your dual mode 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 service provider.

SIM Card

You will receive a Subscriber Identity Module (SIM) 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 service provider and your Phone Book information, among other things.

NOTE:

If a single mode SIM is inserted the phone will not work unless it is set to operate in that mode, i.e. GSM only or Satellite only, see “Mode Switch” on page 11.

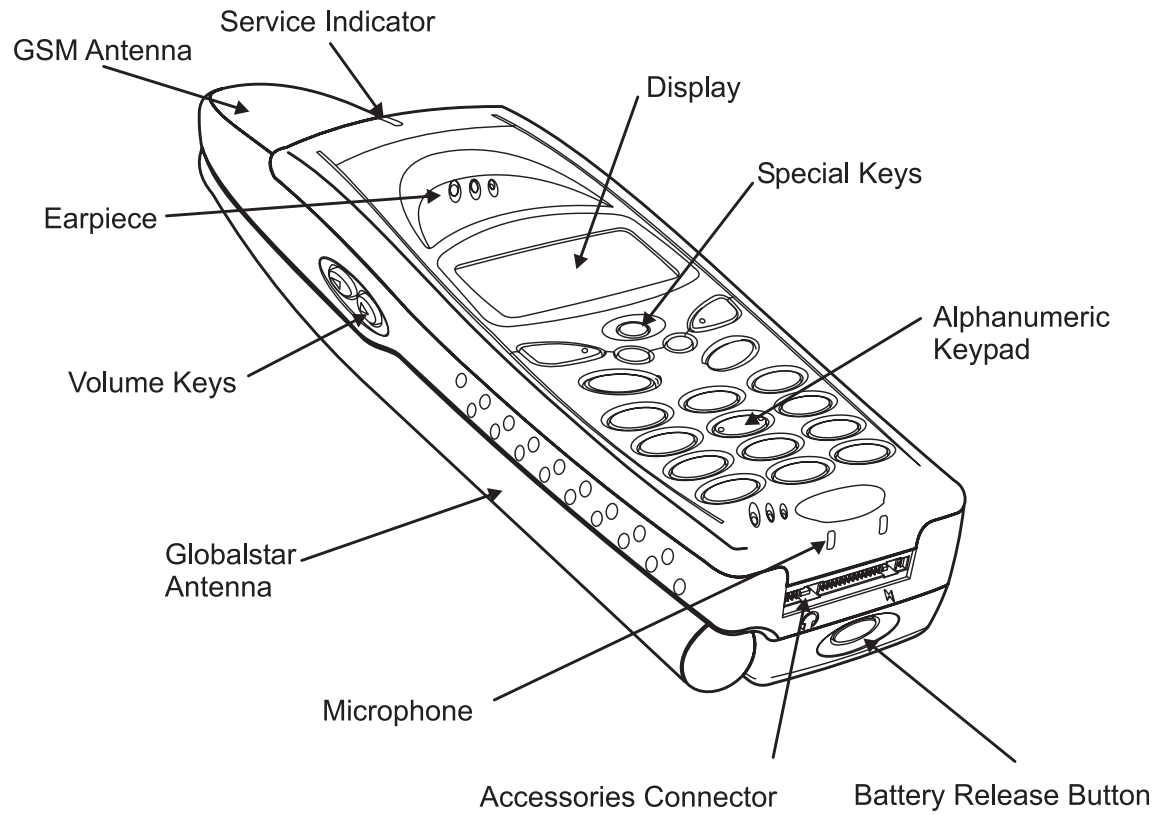
Your PIN

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 access the network. 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 or Super PIN.

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. Contact your operator to obtain this code. See “Unblocking with Personal Unblocking Key (PUK)” on page 39.

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 Phone



Preparing 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), install and charge 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 dual-mode 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 your SIM card may already be installed. If not, you must install it before you can use your phone. SIM cards come in two sizes. One is the size of a credit card, and the other is about the size of a postage stamp. The R290 uses the smaller card. Many networks provide a credit card size card with a small SIM card that you can remove.

Operating Without a SIM Card

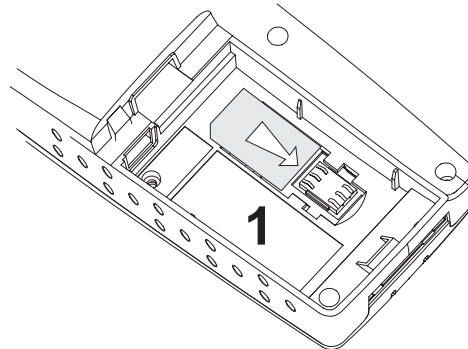
When operating in GSM mode, you can make emergency calls on your R290 phone without a SIM card by dialling 112 or an alternate emergency number, see “Making an Emergency Call” on page 14. This service is not supported by all network operators. You cannot access satellite mode related services without a SIM card.

Inserting the SIM Card

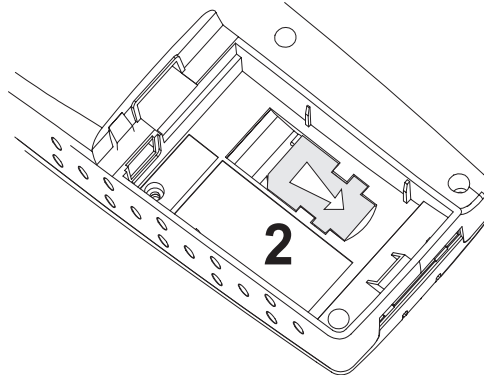
To insert the SIM card, remove the battery (if attached) then:

1. Hold the SIM card with the angled corner at the top left position.

2. Slide the SIM card into the holder as shown (1).



3. Gently press down on the SIM card and slide under the lugs until the top edge of the card clicks into place (2).



4. Refit the battery.

To remove the SIM card insert your finger nail into the curved cutout at the end of the SIM holder and slide the SIM back until it is free.

Operating with a GSM Standard SIM Card

Your phone will operate in GSM mode with a standard GSM SIM card. You can change parameters to override the default satellite parameters. This allows you to set your personal preferences for use in GSM networks.

Enhanced SIM

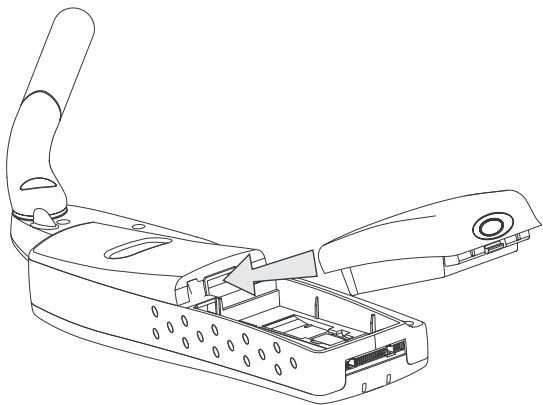
Your phone will operate with an enhanced SIM but many of the additional features of the SIM will not be available.

The Battery

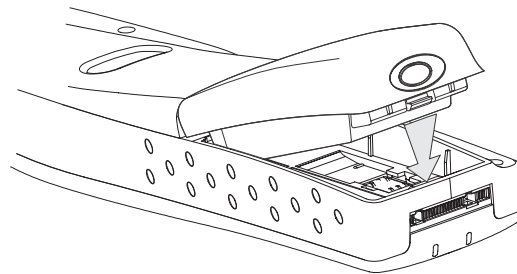
Your mobile phone comes with a Lithium Ion (Li-ion) battery. The battery is not fully charged when purchased, but there may be enough power to turn on the phone.

Attaching the Battery to the Phone:

1. Place the battery on the back of the phone as shown.



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



Removing the Battery

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

1. Press the battery release button.
2. Lift the battery up and away from the phone.

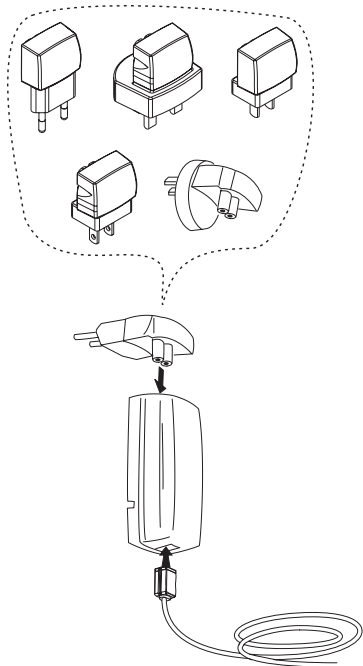
Low battery indication

When the battery is running low, the message Battery Low will flash on the display and the LOW BATTERY WARNING TONE will be played. When the battery is nearly empty, the phone will shut down.

Charging the Battery

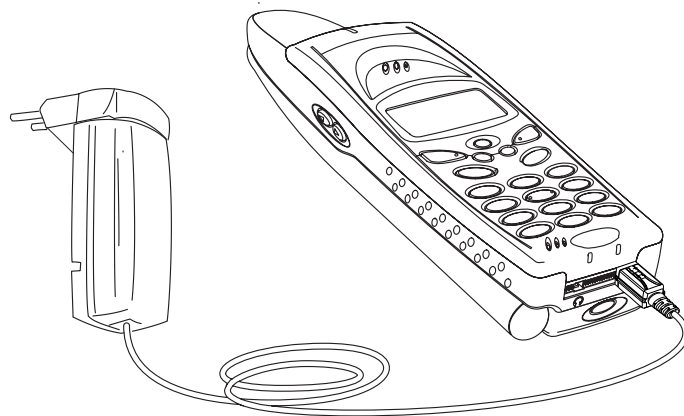
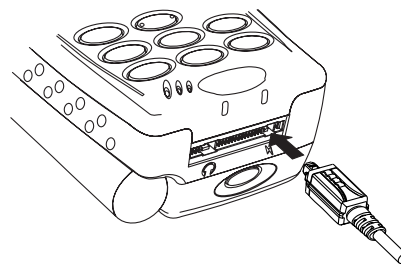
Follow these steps to connect the charger to the power socket and to the phone;

1. Assemble the mains plug, charger and lead. The box may contain more than one mains plug. In this case use the one that fits the wall socket.



2. Connect the charger to the power outlet. A green indicator on the charger lights up. If it does not, disconnect the charger and try attaching it again.

3. Connect the other end of the charger cable to the phone. The button on the plug must face up and the flash symbol down.



The battery starts charging as soon as you attach the charger. Charging is indicated by the following;

1. The battery meter in the display is continuously filled and emptied.
2. The indicator on top of the phone flashes green.

When the battery is fully charged, the battery meter in the display shows full and the indicator on top of the phone slowly flashes a 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. Press the button on the charger plug connected to the phone and pull the plug out.
2. Disconnect the charger from the electrical socket.

When to Charge the Battery

The Lithium Ion (Li-ion) 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, we recommend that you use only Lithium Ion (Li-ion) batteries with your phone.

When the battery needs charging the following happens:

- an alarm signal (a long beep) sounds during a call.
- the indicator light on top of the phone starts blinking red.
- the battery icon will be empty.

NOTE:

If the battery or charger is faulty the led on top of the phone is continuously red.

Low Battery Alarm

When the battery has discharged during a call, the low battery alarm sounds several times, before the phone automatically shuts off. You might be able to turn the phone on again, but you will not be able to make

or receive any calls until the battery is being charged or replaced with a charged one.

The Antenna

Your phone is equipped with two antennas, a satellite communication antenna folded on the left side and an internal GSM antenna.

Deploying the Satellite Antenna

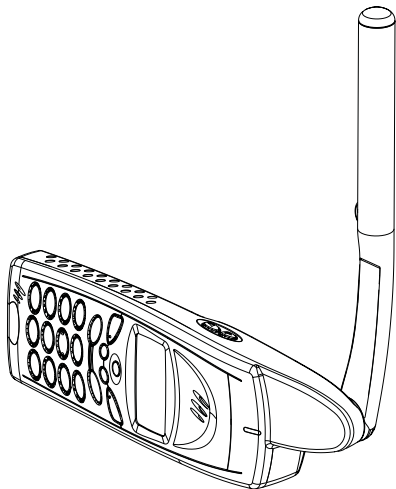
When the phone is used for Satellite communication the antenna must be rotated to the appropriate position for either right or left hand operation, as shown below. A third position is provided for operation on a flat surface with a 'hands free kit'. Ensure the antenna clicks into position, is vertical at all times and has a clear view of the sky when in use.



You do not need to deploy the satellite antenna to make a GSM call. The GSM antenna is internally mounted. Do not hold either 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.

Use with Portable Hands Free (Globalstar Mode)

Connect the Portable Hands Free unit to the phone. Rotate the antenna to the 90 degrees position. Place the phone on a flat level surface with the antenna vertical as shown below.



The phone may be held in the hand if required but the antenna must always be vertical when used in Globalstar mode. 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.

Use with Mobile Office (Globalstar Mode)

Connect the Mobile Office data cable to the phone. Rotate the antenna to the 90 degrees position. Place the phone on a flat level surface with the antenna vertical as shown above. 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.

Turning On the Phone

1. Press and hold down the **PWR** key until the display turns on. The display will illuminate and the POWER ON TONE will be played. A greeting message will appear on the screen. This message can be personalised see “Greetings” on page 32.
2. Enter your SIM PIN (4 to 8 digits).



3. Press **YES**.

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

NOTE:

The first time you turn on your phone you will need to enter the PIN (SIM lock code) given to you by your service provider. You may change your PIN or turn the SIM lock off. See “Card Lock (SIM PIN)” on page 39 for instructions. The digits appear as blocks (■) in the display. If you make a mistake while entering your PIN, erase the digit by pressing the **CLR** key.








In order to guard against unauthorised use of both the phone and the SIM, we strongly recommend that you enable both the phone PIN and the SIM PIN. If these are enabled, they will be verified before the phone starts to search for a network.

Turning Off the Phone

To turn off your phone press and hold the **PWR** key until the display shows powering off.

Navigating the Menu System

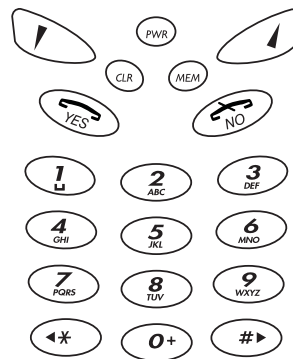
The menus are arranged in a continuous loop that you move through with the **YES**, **NO**, **CLR** and **Navigation** keys.

Key	Name and Function
	Navigation Keys (Soft Left & Soft Right): Press right or left to activate menu mode and scroll through menus.
	YES key: Answers a call, selects a menu or function, or dials a call when digits are displayed.
	NO key: Ends a call, backs up one level and/or leaves a setting unchanged. Long press returns to standby.
	CLR - Clear key.
	PWR - Power key: Powers the phone ON or OFF when held for a second.
	MEM - Memory key: Used to recall a phone number by name or stored number, or to store the number.
	Arrow keys: Left or right arrow keys for editing and menu functions.

To select a menu or make a setting, press **SOFT LEFT** to access menu.

1. Press the navigation keys up/down until you reach the desired menu.
2. Press **YES** to enter the menu or to select the function.
3. Press the navigation keys to find the desired submenu.
4. Press **YES** to enter the submenu or to confirm the setting.

Press **NO** key to return phone to the standby menu.



Display Text and Symbols

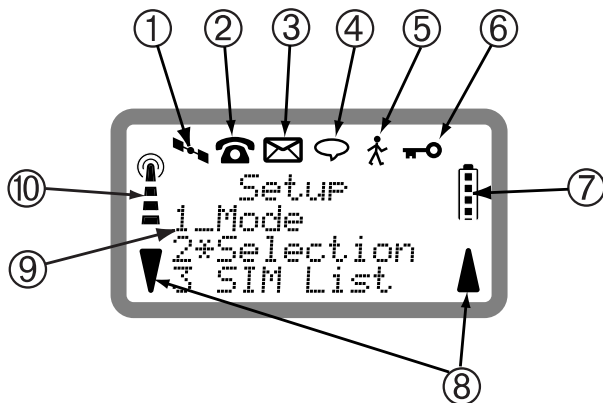
When you navigate the menus, the following indications apply:

1. The underline shows current position of the cursor.
2. The * against number indicates the current setting for function.
3. The up (▲) and down (▼) arrows indicate you can scroll through more options with the **SOFT LEFT** and **SOFT RIGHT** keys.
4. Pressing the number on the keypad will take you to that function in the menu.

Terms Used

Scroll:	Pressing the SOFT LEFT or SOFT RIGHT key to move between menus.
Select:	Scroll to a menu and then press YES .
Enter:	Key in the numbers from the keypad to go straight to function.

Indicators in the Display



No.	Icon	Function
1		Phone is in satellite mode. When not illuminated, the phone is in GSM mode.
2		Flashes for incoming call, steady when call in progress.
3		Flashes for unread message, steady when message read.
4		Voice mail in box.
5		Phone is 'Roaming'.
6		Keylock is active.
7		Battery level indicator; four bars = full battery, no bars = low battery.
8		Scroll arrows, indicate function of SOFT LEFT/SOFT RIGHT keys.
9	1 — *	Indicates menu function available from keypad. Indicates cursor position. Indicates current setting.
10		Signal strength indicator. Four bars = high signal strength. No bars = low or no signal.

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, ring level, or display light. See “Personalizing Your Phone” on page 30.

Set Clock

Your phone displays the time when in standby mode. At the end of a call, it displays the time elapsed since the call began. You can also set other clock-related functions such as date or time and date format. See “Clock” on page 32.

Keypad Lock

Use the menu to lock the keypad on your phone so keys cannot be accidentally pressed when you are transporting it. See “Keypad Lock” on page 37 for instructions on locking/unlocking the keys.

Set Language

English is the default language in your phones display. In phones with more than one language available you may change the language, see “Language” 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, see “Selecting a Network” on page 12.

Mode Switch

To switch network mode from satellite to cellular or vice versa press **SOFT LEFT**, then press **4**.

NOTE:

- If the user is in satellite only mode selecting this option displays the following screen for 4 seconds and then returns to satellite standby.



- If the user is in cellular only mode selecting this option displays the following screen for 4 seconds and then returns to GSM standby.



Mode Menu

Access the Service Setup Mode Menu to select the mode of operation. Press **SOFT LEFT**, **6**, **3** and **1**. The display will show:



The asterisk indicates the mode currently in operation. In this case, the mode is Satellite only.

The Mode Menu allows you to configure the phone to cellular only mode, satellite only mode or to set the preferential mode of operation to cellular preferred or satellite preferred.

- The phone will only attempt to register on a cellular network when it is in cellular only mode.
- If the phone is in satellite only mode, it attempts to register on the Globalstar network.
- Selecting the cellular or satellite preferred option - the phone will use the preferred mode, unless service is not available then the phone will try to find service on the other mode.

After selecting the cellular or satellite only modes, the message *'Please Wait'* will be displayed. If the mode change request is not successful, the message *'Request Rejected'* will be shown, otherwise the display will show either *'Cellular Only Mode Selection Enabled'* or *'Satellite Only Mode Selection Enabled'*.

Searching for a Network

The message on the screen will be *'Searching For Networks'*. This search can take place manually or automatically, but will be automatic the first time that you power the phone on. (A one-shot network search may also be performed).

To switch to Manual Selection press **SOFT LEFT, 6, 3, 2, 2** and a confirmation message *'Manual Network Selection Enabled'* will be shown.

The phone determines which networks are available and selects the last used network, the home network (the network to which you are subscribed) or another network. If no networks are available, the displayed message will be *'No Networks Available'*. If the current network signal strength drops too low, the displayed message will be *'No Service'*.

Selecting a Network

Using manual selection, you can control how the phone selects which operating mode to use and to explicitly select a network to use from a list of those available. Press **SOFT LEFT** then **6**, to display the Service Menu. The display will depend on which mode the phone is currently in.

For cellular mode, the display will be:



For satellite mode, the display will be:



Choose option **1** or **2** as required. The network search will then start and the message *'Searching For Networks'* will be displayed. The RADIO PATH ACKNOWLEDGEMENT TONE will be played when the search is complete and a network will be displayed for selection. An example of the display for GSM mode will be:



If there is more than one network, up/down arrow symbols will appear at the bottom of the screen and the **SOFT KEYS** can be used to view them. When the desired network is displayed, press **YES** to select it. The phone will then register with the network.

NOTE:

In satellite mode it is possible to manually search and select a gateway.

Resume Gateway Search

This feature is available in Globalstar mode only, under manual network selection. Manual Network Selection provides a list of Service Providers available on the current Gateway. The last entry on the list is **"Resume Gateway Search"**, which if selected will defer the current Gateway for 5 minutes and search for another Gateway. On finding another Gateway, the user is presented with a new list of Service Providers available on the new Gateway.

The Standby Display

Once a network has been selected, the standby display will appear. This contains the signal strength indicator, the battery level indicator, and the network details (i.e. the country code and network code for the selected network).

If the country and network codes are recognised by the phone, they are converted to names to help you identify the network. An example of the standby display is shown:



The display can also be configured to show time and date. See "Clock" on page 32.



You may now make a call, answer a call, or access any of the advanced features available with the phone.

If normal calls cannot be supported, or registration fails, or if roaming occurs when there is no roaming agreement, emergency calls may be made (if allowed), but the network name will not be shown on the top of the screen. The network name will also be removed if the network connection is lost, whereby the message 'No Service' will be displayed.

Making and Receiving Calls

This chapter describes how to make and receive calls, in both Globalstar and GSM mode, how to make international and emergency calls, how to show or hide your phone number when calling, and how to handle two calls simultaneously.

Making a Call

1. Enter the area code and phone number. The phone number is shown in the display. If there are more than 12 digits entered, the number will wrap around to the line above. If more than 24 digits, the 1st digit onwards will be represented by a diamond symbol at the left of the screen. To erase a digit, press **CLR**. To erase the entire phone number, press and hold down **CLR** for a couple of seconds.
2. Press **YES** to make the call. The display shows '*Connecting*', followed by '*Connected*' and the phone icon is lit.



NOTE:

Can only dial up to 20 digits unless a pause character is inserted after dialled number.

Holding the Phone

Put the earpiece to your ear for optimum speech and reception quality. If the phone is operating in satellite mode, the satellite antenna must be deployed in the correct position for making a call, see “Deploying the

Satellite Antenna” on page 7. Ensure the satellite antenna is kept vertical when in use. It is adjustable for left or right handed operation, and has a third position for use on a flat surface outdoors. This position is for use with a hands free kit or mobile office.

It is not necessary to deploy the antenna when making a GSM call. The GSM antenna is located inside the phone.

Ending a Call

Press **NO** to end a call.

Making an International Call

1. Press and hold the **0** key to display the international + prefix.
2. Enter the country code, area code (without any leading zero) and the phone number.
3. Press **YES** to make the call.

Making an Emergency Call

Enter **112** (The international emergency number) and press **YES**.

The 112 emergency number can be used in most countries with or without a SIM Card, provided a cellular network is within range. In Globalstar mode a SIM must be fitted.

Redial Function

If the call connection fails, press **YES** to redial the number. Press **NO** to end the call. “To Redial the Last Dialed Numbers” on page 18.

Receiving a Call

When you receive a call, the phone rings and the indicator light on the top of the phone blinks orange rapidly. The display appears similar to:



Answering a Call

Press **YES** to answer the call. When the call is finished, press **NO**.

Rejecting a Call

Press **NO** when the phone rings. If the caller's network supports it, the caller will hear a disconnection tone.

Unanswered Calls

If you have been unable to answer a call, '*Called*' and the last number that called will be shown. To answer the calls, see "To dial the last 10 numbers dialled, received or missed" on page 18.

Putting a Call on Hold

To put a call on hold, press **SOFT LEFT** and select the 'Hold' function. To mute the active call, press **SOFT RIGHT**. To take the call off hold, press **YES** again, or **2, YES** to end call.

Calling Line Identification (CLIP)

The Calling Line Identification service (sometimes known as Caller ID) shows the caller's phone number when you receive a call (you have to order this service). If the caller's name is stored in your phone book, the name is displayed instead of the number. To enable press **SOFT LEFT 1, 1, 3, 1**.



Connected Line Identification (COLP)

The Connected Line Identification service (sometimes known as Connect ID) shows the telephone number of the ultimate destination of an outgoing call. If your call had been diverted the number given will be final connected number and not the one dialled. This service is not supported by all networks.

1. Press **SOFT LEFT, 1, 1, 4** to enter Connect ID menu.



2. Press **YES** to enable Connect ID, or press **2** to disable.
3. Enter the number you wish to call.

Handling Two Calls

Your phone can handle two calls simultaneously, or up to 6 if you have a conference enabled SIM. This allows you to hold one call and make or receive another, then you can switch between the two calls. To be able to receive a second call, you must activate the Call Wait function, see “Call Waiting” on page 43.

Receiving a Second Call While a Call is in Progress

When you receive a second call, you will hear a tone in the earpiece and the display shows *‘Call Waiting’*.

Press **SOFT LEFT**, to enter In-Call menu, select option required.

Switching between Two Calls

Press **SOFT LEFT**, then select option *‘Hold+Accept’*, *‘End+Accept’* or *‘Reject’* to switch between the two calls.

Ending the Current Call and Return to the Held Call

Press **SOFT LEFT**, to enter In-Call menu, select *‘End+Accept’*, **YES** to return to the held call. If you do not press **YES** within three seconds, the held call is automatically ended.

Making a Second Call while a Call Is in Progress

Press **SOFT LEFT**, to enter In-Call menu, select *‘Hold’* to hold first call. Enter the second phone number and press **YES**. The first call is put on hold and the display shows a message *‘On Hold/Connecting’*.

Receiving a Third Call

If you are engaged in one call and have a second one on hold, you may receive a third call. You will hear a tone in the ear piece and *‘Call Waiting’* is shown in the display.

Press **SOFT LEFT**, to enter In-Call menu, select option required.

Useful Information while Talking

During a call, you can: change the volume of the ear piece; mute the microphone; use the display as a scratch pad; send DTMF tones; check the duration of the current call.

Changing Volume while Talking

During a call, you can use the volume keys to increase or decrease the ear piece volume. Press the up or down button on the side of the phone while a call is in progress. An earpiece volume screen is displayed indicating the current volume level. The display will be similar to:



The volume level will be indicated by the number of squares shown.

To “Mute” or “Unmute” the Microphone

Press the **SOFT RIGHT** key during the call to ‘mute’ or ‘unmute’ the microphone. When muting is on, the earpiece and alerter is still active together with the In-call Menu, stores and scratch-pad.



Using Phone as Scratch Pad

1. Enter a phone number on the keypad while talking. When you end the call, the number remains in the display.
2. Press **YES** to call the number shown in the display.
3. Hold **MEM** button to store the number shown.

Sending Tone Signals

During a call you can press keys 0 – 9, * and # to send DTMF tones, (for example, to perform banking by phone or to control an answering machine). See “Sending DTMF Tones During a Call” on page 25

Checking Time or Cost of Calls

When you start a call (incoming or outgoing), the airtime is counted in minutes and seconds. If you want the phone to keep track of the cost, first check if your service provider supports that service. If the service is available for your subscription, see “Call Duration and Cost” on page 26.

For the call duration and cost, the display will show:



For the total call duration and cost, the display will show:



The bottom line shows the call cost, and the duration is shown above it.

To Change the Ring Volume

Press the up or down key on the side of the phone while the phone is ringing before accepting an incoming call. The volume level will be indicated by the amount of squares shown on the display.



You can also change the ring volume from the Ring Tone Menu; refer to “Personalizing Your Phone” on page 30.

To Change Key Tone Volume

To increase or decrease the key tone volume from standby, press the up or down key on the side of the phone when no calls are in progress. The volume level will be indicated by the number of squares shown on the display.



To Redial the Last Dialed Numbers

With the phone in the standby state and no number displayed, press **SOFT RIGHT**, to display the last dialed numbers, select number and press **YES** to dial. Press **NO** to finish the call.

Using Auto-Redial

If auto-redial is enabled from the Call Set-Up, Auto-Redial Menu and your attempt to make a call was unsuccessful because the receiver was busy or unobtainable, the message *'Auto Redial'* will be displayed and the number will be automatically re-dialed unless the party is not available for a long term reason. Re-dialling will continue until the number has been connected or the maximum number of 9 retries has been exceeded. When the auto-redial attempt is activated, the auto-redial warning tone will be played, the backlight switched on, and the message *'Connecting'* will be displayed with the dialed number. See "Autoredial" on page 30 for details on enabling and disabling Auto-Redial.

You can enter menu mode, store and recall numbers etc. as normal, between auto-redial attempts, but re-dialling will not continue until you

return to standby. If a supplementary service request is made, including call hold and call wait, auto-redialling will be terminated.

If you reject an incoming call by pressing **NO**, the auto-redial will not be terminated. It will be terminated only if the call is connected or the maximum number of retries is exceeded, whereby the number will be blacklisted so that auto-redial attempts to it are prevented. The blacklist is reset after power off/on or when the auto-redial function has been turned off/on. The blacklist should be cleared after 24 hours. When there are no digits on the screen, pressing **NO** will terminate auto-redial.

To dial the last 10 numbers dialed, received or missed

Every time you dial a number, it will be stored in the Last Number Dialed (LND) store if it does not already exist in the store. Also, every time you receive an incoming call, if it contains a Calling Line Identification Presentation (CLIP) number, it will be stored in the Last Number Received (LNR) store. Every time you receive a call with CLIP and do not answer it the number is stored in the Last Number Missed (LNM) store.

To access the active last number store, press the **SOFT RIGHT** key in standby.

Use discrete presses of **SOFT RIGHT** in standby to scroll through the currently active store. Each store holds up to ten numbers. If the selected store is empty, the message *'Store Empty'* will be displayed before returning to standby.

When a number is being displayed, you can use it to initiate a call by pressing **YES**.

Refer to "Last Number Stores" on page 23 for a detailed explanation of the Dialed, Received and Missed stores.

Missed Calls

If you do not answer a call, the phone indicates a missed call by displaying a '*Called*', '*Called-Data*' or '*Called-Fax*' message until a key is pressed.

Making/Answering a Call with Call Bar Active

If either incoming or outgoing call barring is active and you make or answer a call. The network may send you a reminder (for possible messages, see "Call Barring" on page 48, to review outgoing call restrictions and to review incoming call restrictions).

Notification that a Call has been Diverted

When a call is being diverted, the network may inform all of the parties concerned, using different messages, depending on the options set on the phones and who is receiving the message.

The original caller may receive the message '*Outgo'g Call Diverted*' and will hear the RADIO PATH ACKNOWLEDGEMENT TONE in the earpiece.

The original called party (who has set one of the options in the call divert Menu) will be given a message notifying them of the current call state: If the '*Incom'g Call Diverted*' message is displayed, the caller's phone number may also be displayed if it is available (this depends on the settings of the phone). You will also hear the RADIO PATH ACKNOWLEDGEMENT TONE.

The phone to which the call is diverted will display the message *Diverted Incom'g Call* (and the caller's phone number if the CLIP information is present).

Making a Call with Call Divert Set

If you have set a call divert option and you make a call, the message *Call Divert Active* may be displayed briefly while the call is being placed. The telephone number will then be redisplayed.

Using the Phone Book

This chapter describes how you can store phone numbers both on your SIM Card and in your phone's own memory.

About the Phone Book

You can store phone numbers both on your SIM Card and in your phone's own memory. The difference between the two is that you can remove the SIM Card and use all those telephone numbers in other phones, while the phone's memory always stays the same no matter which SIM Card is inserted.

You can store up to 99 phone numbers in the phone memory. The number of phone numbers you can store on your SIM Card is SIM Card dependent (limited to 100).

International Numbers

If you intend to use your phone book both at home and abroad, you should store all phone numbers as international phone numbers, i.e. with the international prefix “+” and the country code before the area code (without any leading zero) and the number.

To enter the “+” prefix, press and hold the **0** key until the + appears.

Speed Dialling

The phone numbers that you store in positions 1– 9 on the SIM Card can be called by a long press on the position number. You should, save positions 1– 9 for important numbers.

To Store a Name and a Number into a Selected Memory Store

1. Press and hold **MEM** for at least half a second. The display will be:



2. Enter the first letter of the name by pressing the appropriate numeric key as many times as required (see Tables for all characters). To change the character set to lower case press the **SOFT RIGHT** key.

NOTE:

Pressing the **SOFT RIGHT** key will cycle the character sets through Upper case, Lower case, Numeric, Greek and back to Upper case. The current mode is shown in the bottom right corner of the screen with the characters ‘ABC’ corresponding to Upper Case, ‘abc’ for Lower Case, etc.

3. Enter the next letter when the cursor has moved to the next letter position. The Name may be up to twelve characters depending on the type of SIM you are using.
4. Press **SOFT LEFT** to move to the next line.
5. Enter the telephone number. If you enter more than eleven digits in the telephone number, the remainder will not be displayed and a diamond character will be shown to the left of the display.
6. Press **SOFT LEFT** to move to the next line.
7. Enter the store number you want (for example 003) and press **YES**. To store your number on the SIM card enter a number between 1 and 100. To store your number in the phone enter a number between 101 and 200.

NOTE:

If the selected memory store already contains a number or the memory is full, the display will show:



To overwrite the existing entry, press **YES**. To select another memory store, enter the new store number and press **YES**.

The following tables show the available characters and the number of key presses required to display them. The pause and wildcard can be accessed by the '#' key, use extended keypad for +:

Table 1: Upper Case Mode

	Number of Key presses															
Key	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1		.	,	?	!	'	-	()	@	"	:	;	<	=	>
2	A	B	C	Ä	Å	Æ	Ç									
3	D	E	F	É												
4	G	H	I													
5	J	K	L													
6	M	N	O	Ñ	Ö	Ø										
7	P	Q	R	S												
8	T	U	V	Ü												
9	W	X	Y	Z												
0	£	\$	¥	ı	ı	%	&	/	§							

For example, to enter the name Ericsson, press the following keys: E (33), **SOFT RIGHT**, r (777), i (444), c (222), s (7777), s (7777), o (666) AND n (66).

Table 2: Lower Case Mode

	Number of Key presses															
Key	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1		.	,	?	!	'	-	()	@	"	:	;	<	=	>
2	a	b	c	ä	å	à	æ									
3	d	e	f	é	è											
4	g	h	i	ì												
5	j	k	l													
6	m	n	o	ñ	ö	ò	ø									
7	p	q	r	s	ß											
8	t	u	v	ü	ù											
9	w	x	y	z												
0	£	\$	¥	ı	ı	%	&	/	§							

Table 3: Numeric Mode

	Number of Key presses									
Key	1	2	3	4	5	6	7	8	9	10
1	1									
2	2									
3	3									
4	4									
5	5									
6	6									
7	7									
8	8									
9	9									
0	0	+								

Table 4: Greek Mode

	Number of Key presses															
Key	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1		.	,	?	!	'	-	()	@	"	:	;	<	=	>
2	A	B	X													
3	Δ	E	Φ	Θ												
4	Γ	H	I													
5	K	Λ														
6	M	N	O	Ω												
7	Π	P	Σ	Ψ												
8	T	Y														
9	Ξ	Z														
0	£	\$	¥	ι	ζ	%	&	/	§							

The display will show:



To move through the name, hold the <*> and #> keys down for at least half a second. To delete the character to the left of the insertion point, press **CLR**. You can enter another character in the normal manner. Holding the **CLR** key will delete the whole line.

To Store Your Own Telephone Number

The phone can store up to 5 of your own numbers, this is SIM dependant. Normally only 1 is required, which is the number used to make speech calls with the phone. However, you may also have different numbers for other services such as data and fax. The five available stores are accessed as sub-stores to memory store 0.

1. Press and hold **MEM** for at least half a second. Enter details and Scroll down to '**Store?**'.
2. Enter **0** and press **YES**. The display will show:



3. Enter a digit from **1** to **5** (dependant on SIM) and press **YES** to store your own number.
4. To clear a memory store, Press and hold **MEM**, scroll down to '**Store?**', enter the store number followed by **YES**.

To Read and Recall a Telephone Number from the Phone Book Store

To recall a number store in any of your memory stores, press **MEM** for less than half a second. The following screen will be displayed:



To recall by the name associated with the desired number, enter the name, or part of it, in the '*Name?*' line and press either **MEM** or **YES**. To recall by the store number, move to the '*Store?*' line and enter the one or two digit number followed by **MEM** or **YES**. Alternatively, precede the number with one or two zeros to make a 3 digit number and the contents will be recalled automatically. An example of the display is:



If there are up and down arrows on the screen, you can scroll through the telephone stores, by using the **SOFT LEFT/RIGHT** keys, or hold down the soft keys for at least half a second for automatic scrolling. If you have used a name to recall the stores, they will be scrolled through alphabetically. If a store number has been used, scrolling will be carried out numerically.

If the telephone number is more than 24 digits long, only 23 digits will be shown on the screen. When in standby use the **<*** and **#>** keys to view the rest of the number.

To dial the selected number, press **YES**.

To Edit a Number from Memory Store

This feature allows you to quickly select an existing telephone number, change it into one that is similar and then dial it.

Recall the memory store by the name or store number. Only the telephone number may be edited and any changes that are made will not be automatically saved in the memory store.

To return to standby and retain and recall the number for dialling or editing, press **NO**. To leave the number recall screen and enter a new number, enter the numeric digits.

The number can be scrolled through in order to clear or insert digits. Press **<*** or **#>** for at least half a second to scroll automatically through each digit. Pressing **CLR** quickly will delete the digit at the position of the cursor. Holding the **CLR** key down for at least half a second will delete the whole number. Press **YES** to initiate the call.

To Display your Own Telephone Number

You can view your own telephone number from standby by pressing **MEM**, **SOFT LEFT**, **0**, **MEM**. An example of what the display will be is:



The SIM used to enter the telephone number must be in place, otherwise the message '*Store Empty*' is displayed.

Last Number Stores

The three stores Dialed, Received and Missed can be accessed using the **SOFT RIGHT** key in standby. Only one store may be accessed at any one

time. To change the store, hold down **SOFT RIGHT** for at least half a second. The display will be:



To select the Dialled store, press either **1** or move the cursor to this option and press **YES**. To select the Received store, press either **2** or move the cursor to this option and press **YES**. For the Missed store, press either **3** or move the cursor to this option and press **YES**.

You can scroll through the numbers in the store that is currently active by pressing **SOFT RIGHT** in standby. If the selected store is empty, the message '*Store Empty*' will be displayed before returning to standby.

When a number is on the display (no matter which store it is from), you can use it to initiate a call by pressing **YES**.

If you receive an incoming call whilst viewing a number from a number store, the display will leave the store and display the appropriate call indication.

The Dialled Store

The Last Number Dialled store holds up to ten numbers which may include any supplementary service request sequences that you have made. When the store is full, the oldest number is deleted to insert a new number.

When the Dialled store is active, the last number can be recalled by pressing **SOFT RIGHT** in standby. The display will be:



If there is a name associated with this number, this will be recalled from the phone book stores.

Press **SOFT RIGHT** to scroll through the list of dialled numbers.

If a Phase 2 SIM is used, the number of Dialled numbers copied to the SIM from the phone's memory or vice versa will be dependant on how many Dialled numbers the SIM supports.

Using another SIM will mean that any numbers will not be displayed and any calls made with the new SIM will overwrite the Dialled memory locations.

The Received Store

The Last Number Received store holds up to ten numbers.

When the Received store is active, the last number can be recalled by pressing **SOFT RIGHT**.

The display will be:



Discrete presses of **SOFT RIGHT** will scroll through the list of received numbers.

The Missed Store

The Last Number Missed store holds up to ten numbers. When the Missed store is active, the last number can be recalled by pressing **SOFT RIGHT**. The display will be:



Discrete presses of **SOFT RIGHT** will scroll through the list of missed numbers.

Last Number Redial

If you press the **YES** key in standby when no number is on the display, the last number dialled will be recalled and dialled. The call is treated in the same as when dialling a normal number.

Pause Dialling

To enter a PAUSE character in a dialled number from standby, type in a normal telephone number. Enter a PAUSE character by pressing the **#** key twice and the 'PAUSE' symbol will appear as a filled in block (■).

The digits that you add after the PAUSE will be transmitted as DTMF tones across the network. For example:



You can send the number in the usual manner, or store, dial or edit it, or clear the number from the display. You can also recall the number from the phone book stores.

If you dial the number, when the DTMF tones are signalled over the network they are echoed through the earpiece so that you can hear what is happening. You can terminate the call as normal.

You may enter any number of PAUSES into a number. The number must not exceed 60 characters not including the international prefix.

Sending DTMF Tones During a Call

You can generate DTMF tones manually while a call is in progress. This facility can be enabled/disabled from the Call Set-up Menu by selecting **5** followed by **YES**. The display will be:



To enable the DTMF tones press **1** or **YES**. To disable them, press **2**. A confirmation message will be displayed before the phone returns to the Call Setup Menu.

If the DTMF tones have been disabled and you need to send DTMF tones during a call, you can enable them using the In-call Menu.

When enabled, any numerical key press, including <*> and #>, will cause DTMF tones to be signalled across the network.

One-Touch Dialling

You can use the one-touch dialling function by pressing and holding the digit keys **1** to **9** for at least half a second. The number contained in the corresponding phone book store is recalled and is dialled automatically.

Call Duration and Cost

The Call Time Menu sets the phone to record approximate call time and cost.

Last Call

1. Press **SOFT LEFT, 2**, to enter the Call Time Menu.



2. Press **1** or **YES** to display the duration and cost of the last call made. The time is displayed in hours, minutes and seconds. The cost is displayed in the chosen currency.

NOTE:

The cost is only displayed if the call rate charges (unit cost) have been entered into the phone, see “Call Cost Setup” on page 27. If you have set the call charging parameters to zero, only the duration of the call will be displayed.

All Calls

1. Press **SOFT LEFT, 2**, to enter the Call Time Menu.



2. Press **2** to display the duration and cost of all calls made. The time is displayed in hours, minutes and seconds. The cost is displayed in the chosen currency.

To Reset the Call Time/Cost Counters

1. Press **SOFT LEFT, 2**, to enter the Call Time Menu.



2. Press **3** to reset the call time/cost counters.

NOTE:

If your SIM does not support Advice of Charge, you will be required to enter the phone PIN and press **YES**. The time and cost counters will then be reset to zero and a confirmation message of **‘Request Accepted’** will be displayed before returning to standby.

If the phone PIN is entered incorrectly, an error message will be given and a request to re-enter it. If it is entered incorrectly three times, you will not be able to reset the time and cost counters. The message **‘Timer Reset Disabled’** will be given and you will not be able to reset the counters until the phone PIN has been entered correctly.

SUPER PIN

If you are using a Phase 2 SIM, you may be required to enter the Super PIN. Enter it (if you do not have this, you can get it from your service provider). When you have entered this, press **YES**. A confirmation message of '**Request Accepted**' will be displayed on the screen before returning to standby.

If the SUPER PIN is entered incorrectly, an error message will be given and a request to re-enter it. If it is entered incorrectly three times, the message Super PIN Blocked will be given and you will not be able to reset the counters or access any other SUPER PIN protected functions until the PIN has been unblocked.

Call Cost Setup

1. Press **SOFT LEFT**, **2**, to enter the Call Time Menu.



2. Press **4** to display the Cost Setup menu.



3. Press **1** to display the Unit Cost screen.



4. Enter the unit cost. An example of how this should be entered is 2, 5, 0, 0 for the unit charge of £2.50.



5. Press **SOFT LEFT** to move the cursor to the Currency field and select a currency using the <*> or #> key. If you do not change the default currency, the phone will use that indicated by the current SIM.
6. Once the cost and currency information has been entered, press **YES**. You may be prompted for the SUPER PIN or PHONE PIN depending on the SIM present in the phone.

NOTE:

If the PHONE PIN is entered incorrectly three times, the message '**Call Rate Change Disabled**' will be given.

After the requested PIN has been entered correctly, the confirmation message '**Request Accepted**' will be given before returning to standby.

If the unit time and cost have been set up and if Advice of Charge has been subscribed to, it will be used in preference.

If you are only subscribed to Advice of Charge Charging (AOCC) but the network you are using does not support it you will not be able to make chargeable calls.

If the maximum number of units has been reached (the Accumulative Call Meter Maximum), you will only be able to make emergency calls. If you are currently in an outgoing chargeable call, this will be shut down.

If the unit cost has not been set up, the total number of call units will still be stored so that the unit cost may be added later in order to calculate the costing information.

If the unit cost is replaced, the cost of all units will be re-calculated.

Call meters may be reset, but if a Phase 1 SIM is being used, they are Phone PIN protected, or if a Phase 2 SIM is being used, they will be Super PIN protected.

To Setup the Unit Time for Calls

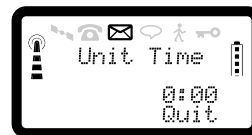
1. Press **SOFT LEFT**, then **2**, to enter the Call Time Menu.



2. Press **4** to display the Cost Setup menu.



3. Press **2** to display the Unit Time screen.



4. Enter the unit time in minutes and seconds. Press **YES** to enter the values that you have typed in. The time will be checked to determine whether it is valid; if it is not, the display will show **'Unit Time Invalid'**, before reverting back to the Unit Time display.
5. Before the changes that you have made are accepted, you will be required to enter the phone PIN.

NOTE:

If the phone PIN is entered incorrectly more than three times, the message **'Call Rate Change Disabled'** will be shown before returning to standby and you will not be able to change the unit time until it has been entered correctly.

To set the maximum cost

If you have set a maximum cost, when the total number of call units is equal to this value, you will be prevented from making outgoing calls and receiving chargeable incoming calls.

If you are in a call, 30 seconds before this limit is reached, you will be warned that you have approximately 30 seconds of talk time left by the RADIO PATH NOT AVAILABLE TONE being given and the message **'Cost Limit Approaching'** being displayed.

When the maximum cost limit is reached, the message **'Cost Limit Reached'** will be displayed and the call terminated. The message **'Cost Limit Reached'** or **'Chargeable Incoming Call'** will then be displayed on the screen if another call is received.

You will now only be able to make emergency calls and receive non-chargeable calls (some incoming calls are chargeable) until the cost limit is reset. This can be performed as long as the SIM supports Advice Of Charge.

1. Press **SOFT LEFT**, **2**, to enter the Call Time Menu.



2. Press **4** to display the Call Cost menu.



3. Press **3** to display the Maximum Cost screen.



4. Enter the maximum number of call units you want the phone to have available for chargeable calls.
5. Press **YES** to enter this information.

If it is an Advice of Charge SIM, you may be required to enter the “SUPER PIN” on page 27. When the PIN has been confirmed, the message ***Request Accepted*** will be displayed before returning to standby.

If using a non-Advice of Charge SIM, any attempt to access the Cost results in the message ***Request Rejected*** being displayed.

NOTE:

The call charge indications provided by the phone are only an approximation of the true cost of your calls as determined by your service provider. These will be more accurate if you have subscribed to Advice of Charge, as the phone will calculate call charges using the cost entered and time units supplied by the Advice of Charge Information (AOCI) and/or Advice of Charge Charging (AOCC).

Personalizing Your Phone

Autoredial

This menu allows you to select the action the phone will take if you dial a number that is busy or unobtainable. The auto-redial feature permits a telephone number to be redialled if the call does not connect at the first attempt.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **1** or **YES** to show Autoredial menu.



3. Select required function, press **1** to enable the auto redial, press **2** to disable.

A confirmation message will be displayed for 2 seconds.

Ring Tone

To access the Ring Tone menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **2** to show Ring Tone menu.
3. Press **1** for Ring Type.



4. Select required function:
 - To enable Standard Tone, press **1**.
 - To enable Dual Tone, press **2**.
 - To enable Long Tone, press **3**.

The phone will then return to the Call Setup menu.

Ring Volume

To access the Ring Volume menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **2** to show Ring Tone menu.
3. Press **2** for Ring Volume.



4. Adjust the volume level by using the up and down volume keys or the **SOFT** keys.

The squares that are filled in indicate the volume level currently set. When the volume level is at its lowest, i.e. silent, none of the squares will be filled in. Each time you adjust the volume level, the current ALERTING TONE will be played at that volume level. Press **YES** to confirm selection of the required ringing volume. The phone will then return to the Call Setup Menu.

Escalating Ring Volume

To access the Escalating Ring Volume menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **2** to show Ring Tone menu.

3. Press **3** for Escalating Ring Volume.



4. To enable the escalating ring volume, press **1** or **YES**. To disable it, press **2**. A confirmation message will be displayed before returning to the Call Setup menu.

Caller ID

To access the Caller ID menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **3** to show Caller ID menu.



3. To enable Caller ID, press **1** or **YES**. To disable it, press **2**.

NOTE:

If the calling number matches a number in the phone book stores, the associated alphanumeric name will also be shown on the display. This display will remain until the call is answered or rejected.

Connect ID

To access the Connect ID menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.

2. Press **4** to show Connect ID menu.



3. To enable Connect ID, press **1** or **YES**. To disable it, press **2**. A confirmation message will be displayed before the phone returns to the Call Setup menu.

Automatic Display of Call Time

To access the Auto Time menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **6** to show Auto Time menu.



3. To enable Auto Time, press **1** or **YES**. To disable it, press **2**. A confirmation message will be displayed before the phone returns to the 'Call Setup' menu.

Auto Answer (Car Kit)

Allows you to enable or disable the handsfree auto-answering function. When enabled, the phone will automatically answer an incoming call when the phone is attached to the handsfree car kit.

To access the Auto Answer menu.

1. Press **SOFT LEFT, 1, 1** to enter Call Setup menu.
2. Press **7** to show Auto Answer menu.



3. To enable Auto Answer, press **1** or **YES**. To disable it, press **2**. A confirmation message will be displayed before the phone returns to the Call Setup menu.

Greetings

A greetings text appears when you first turn on the phone. You can change the text as follows:

1. Press **SOFT LEFT, 1, 3** to enter Greetings Menu.
2. Press **CLR** to clear message.
3. Press **YES** to confirm.
4. Enter the first letter of the greeting (up to four lines) by pressing the appropriate numeric key as many times as required. To change the character set to lower case press the **SOFT RIGHT** key, see Table “Lower Case Mode” on page 21.

NOTE:

Pressing the **SOFT RIGHT** key will cycle the character sets through Upper case, Lower case, Numeric, Greek and back to Upper case. The current mode is shown in the bottom right corner of the screen with the characters ‘ABC’ corresponding to Upper Case, ‘abc’ for Lower Case, etc.

For example, to enter the text: ‘World’, press the following keys: W (9), **SOFT RIGHT**, o (666), r (777), l (555), d (3). The display will show:



Press **YES** to confirm. A confirmation message ‘*Request Accepted*’ will be displayed before the phone returns to the Call Setup menu.

Clock

The clock can be set for 12 or 24 hr mode and various date modes.

Set Time

1. Press **SOFT LEFT, 1, 4** to enter the Clock Menu.



2. Press **1** or **YES** to set clock, current time is shown in brackets.



3. Enter digits for new time and press **YES**. Use * key to toggle am/pm. A confirmation message ‘*Clock updated*’ will be displayed before the phone returns to the Clock menu.

Set Date

1. Press **SOFT LEFT**, **1**, **4** to enter the Clock Menu.



2. Press **2** to set date, current date is shown in brackets.



3. Enter two digits for current year and press **YES**.
4. Enter two digits for current month and press **YES**.
5. Enter two digits for current day and press **YES**.

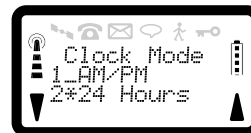
A confirmation message '*Date Updated*' will be displayed before the phone returns to the Clock menu.

Clock Mode

1. Press **SOFT LEFT**, **1**, **4** to enter the Clock menu.



2. Press **3** to set Clock Mode, current mode is shown with asterix.



3. Press **1** to select AM/PM mode or press **2** for 24 hour mode. A confirmation message '*Clock Mode enabled*' will be displayed before the phone returns to the Clock menu.

Date Mode

1. Press **SOFT LEFT**, **1**, **4** to enter the Clock menu.



2. Press **4** to set Date Mode, current mode is shown with asterix.



3. The current date is presented in the currently selected date mode. Press **SOFT LEFT** and **SOFT RIGHT** to toggle round the options.

The possible options are:

Day-Month-Year	e.g. 19-05-99
Month/Day/Year	e.g. 05/19/99
YearMonthDay	e.g. 990519
Day-Month-Year	e.g. 19-May-99
Off	

4. Press **YES** to select an option.

The current date is displayed in the appropriate confirmation mode for 4 seconds before returning to the Clock menu.

Satellite Synchronisation Mode

1. Press **SOFT LEFT**, **1**, **4** to enter the Clock menu.
2. Press **5** to set Satellite Synchronisation Mode.
3. The following display will appear:



4. Press **SOFT LEFT** or **SOFT RIGHT** to change displayed offset, the time increments in 15 minutes steps to a maximum of 13 hours.

When required figure is seen press **YES**.

A confirmation message '*Synchronised Clock*' will be displayed.

Language

The phone supports 12 languages for all display messages. The user has the option to select any one of these languages as desired.

When the phone is first used following factory initialisation, language selection is set to automatic. Consequently, the language will be selected automatically according to the SIM.

Language Mode

To access the Language Mode menu.

1. Press **SOFT LEFT**, then **1** to enter Setup menu.

2. Press **5** to show Language menu.



3. To enable Automatic Language Selection, press **1** or **YES**. To enable manual selection, press **2**.

A confirmation message will be displayed before the phone returns to the Call Setup menu.

To Choose a Language

1. Press **SOFT LEFT**, then **1** to enter Setup menu.
2. Press **5** to show Language menu.
3. Press **2** to choose a new language manually.
4. Press **SOFT LEFT** or **SOFT RIGHT** to scroll through the available languages. Pressing and holding the keys for at least ½ second will automatically scroll through the available languages, pausing for ½ second on each.

The following languages (in their native form) shall be displayed as the user scrolls through the options:-

English, Suomi, Ελληνικά,
Deutsch, Français, Español,
Italiano, Nederlands, Portugues,
Dansk, Norsk, Svenska.

Press **YES** to select the chosen language.

The unit will then return to the Setup display with all message prompts in the new language.

Power Save

The phone has a power saving features that allow you to enable or disable the visual indicator and Keypad backlighting.

Backlight Operation

1. Press **SOFT LEFT**, **1** to enter Setup menu.
2. Press **6** to show Power Save menu.



3. Press **1** to select the backlight operation.



4. Press **1** to permanently switch on the backlight. Press **2** to switch it off. Press **3** to switch off the backlight automatically after a period of inactivity.

NOTE:

If you select automatic backlighting, you will be prompted to enter the required period of inactivity (no incoming messages or calls, key presses

etc.) before the backlighting is switched-off, in seconds. The display will show:



Enter the time required in seconds and press **YES**.

A confirmation message will be displayed on the screen.

Visual Indicator Usage

1. Press **SOFT LEFT**, **1** to enter Setup menu.
2. Press **6** to show Power Save menu.



3. Press **2** to select the Indicator operation.



4. Press **1** to enable the Visual Indicators, press **2** to disable them.

Handsfree Automatic Shutdown Timer

Allows you to specify a time period (in minutes) when the phone will stay on after the vehicle ignition is switched off.

1. Press **SOFT LEFT**, **1**, **8** to enter Timer menu.



2. Enter a **1** to **3** digit number and press **YES** to save.
A confirmation message '*Request Accepted*' will be displayed on the screen.

Fixed Dialed Number Store

This feature allows you to restrict the telephone numbers that can be dialled using the phone. It is only available if you are using a Phase 2 SIM card which supports fixed dialling.

1. Press **SOFT LEFT**, then **1**, then **7** to enter Fixed Numbers menu.



2. Press **1** or **YES** to enable the Fixed Dial Stores, or **2** to disable it.
You may be prompted to enter the "SUPER PIN" on page 27.

If the SUPER PIN has been entered correctly, a confirmation message of '*Fixed Number Dialling Enabled*' or '*Fixed Number Dialling Disabled*' will be given before the display returns to the Setup Menu.

Voice Mail

1. Press **SOFT LEFT**, **1**, **9** to enter Voice Mail setup.



2. Enter the number supplied by the service provider that the phone will use to extinguish the Voice Mail icon and press **YES**.

New voice mail causes the alert tone to be played and the voice mail icon will flash until you call the voice mail centre.

NOTE:

Once you call the voice mail centre to retrieve mail, the flashing icon is extinguished, even if you have not heard all the messages.

Protecting Your Phone

This chapter describes the different locks that you can use to protect your phone. These are the only ways of protecting your phone in case of theft.

About Locks

Your phone has three types of locks:

- Keypad lock (does not protect in case of theft).
- Phone lock.
- Card lock (SIM).

The card and phone locks are found in the Security menu and you find the keypad lock in the Keylock menu.

Keypad Lock

You can lock the keypad so that unintentional key actions have no effect if the phone is turned on when you are carrying it in a handbag or pocket. The keypad remains locked until you:

- Answer or reject a call.
- Unlock the keypad yourself.

NOTE:

You can always make the international emergency call 112 when the keypad is locked.

Setting the Keypad Lock

To prevent accidental key actions, you can lock the phone's keypad.

1. Press **SOFT LEFT**, **7**. The display will show:



While the keypad lock is on, emergency calls can be made by pressing **1, 1, 2**.

If an incoming call is received, the backlight operation will be enabled and the **YES**, **NO** and **0** keys will become operational. You can answer the call using **YES** or reject it using **NO**, or **0** and **YES** for User Determined User Busy (which allows the diversion of an incoming call to be forced to the number that has been registered with the network for call forwarding if busy).

NOTE:

The keypad lock takes precedence over Short Messages. Therefore, you will need to disable the Key Lock first before you can read any of the messages.

To unlock the keypad

When the keypad lock is enabled, pressing **SOFT LEFT** will only allow the user to select the option to Unlock the keypad. The display will show:



Press **7** or **YES** to unlock the keypad.

Phone Lock (PIN)

The phone lock protects the phone against unauthorized use of the phone if there is a theft. The phone lock is not activated when you buy the phone. The phone Personal Identification Number (PIN) will be set to 0000.

If the phone PIN is enabled, when you switch on the phone, the message '**Phone PIN Enabled**' will be displayed. It is strongly recommended that you enable the Phone PIN. If you do not like the original number we recommend that you change it to one you find easy to remember.

It is important that you remember the phone PIN. Please make a note of it somewhere safe, not on the SIM or the phone.

The phone PIN can only be changed when the MASTER SIM is inserted, (the SIM fitted when the phone PIN was first enabled). If a different SIM is used, the message '**Request Rejected**' will be given.

To Enable the Phone PIN

1. Press **SOFT LEFT**, **1** to enter Setup menu.
2. Press **2** for Security menu, then press **1**.



3. Press **2** to select Enable.



4. Enter the 4 digit phone PIN and press **YES**.

The message '**Phone PIN Enabled**' will be shown on the screen and the phone will return to the Setup menu.

To Disable the Phone PIN

1. Enter the PHONE PIN Options Menu and press **3**. If the PIN has already been disabled, you will not be prompted to enter the PIN, otherwise the display will be:



Enter the 4 digit phone PIN and press **YES**. The message '**Phone PIN Disabled**' will be shown on the screen and the phone will return to the Setup menu.

NOTE:

If you enter the PIN incorrectly, you will be notified of this and asked to re-enter it. If you enter it incorrectly three times, the phone will be disabled for all foreign SIMs and the message '**Phone Disabled**' will be shown on the display.

If you try to disable the PHONE PIN when it is enabled and you are using a foreign SIM, you will be given the message '**Phone PIN Disable Not Allowed**'.

To Change the Phone PIN

You can only change the Phone PIN when it has been enabled.

1. Select Phone PIN Menu, press **1**.
2. Enter the old PIN digits and press **YES**. The display will now show '**Enter New Phone PIN**'.
3. Enter the new PIN digits and press **YES**. The PIN must be 4 digits long.

4. Enter the new PIN digits again to confirm and press **YES**. The display will show '*New Phone PIN Accepted*' before returning to the Setup Menu.

NOTE:

- If you enter the old PIN incorrectly, the message '*Phone PIN Error*' will be shown. If it is entered incorrectly three times, the phone will become disabled.
- If you make a mistake when confirming the PIN, the message '*Phone PIN Confirmation Error*' will be shown and you will be asked to re-enter the new PIN again.
- When the PIN has been successfully confirmed, the phone will return to the Setup Menu.
- If the Master SIM (the SIM fitted when the phone PIN was first enabled) is not used when attempting to change the phone PIN, the message '*Request Rejected*' will be given.

If you cannot find the Master PIN, contact your service provider.

Unblocking with Personal Unblocking Key (PUK)

When you buy your SIM Card, you obtain a 4- to 8- digit Personal Identification Number (PIN) and a Personal Unblocking Key (PUK). The PIN is the code that you enter to get access to and activate your subscription. PIN 2 is used with special functions, such as Advice of Call Charge. The PUK (and PUK 2) is a code that helps you unlock your phone when you have forgotten the PIN (PIN 2).

If you have entered the PIN incorrectly three times in a row enter the following from standby:

**** 0 5 * SIM PIN1 Unblocking Key**

Then enter the new number.

* New SIM PIN1

Enter the new number again to confirm.

* New SIM PIN1

Card Lock (SIM PIN)

The card lock protects your SIM Card. When the card lock is active, you will always be prompted to enter your PIN at start-up.

To Enable the SIM PIN Lock

1. Press **SOFT LEFT, 1** to enter Setup menu.
2. Press **2** for Security menu, then press **2**.



3. Press **2** to select Enable.



4. Enter the 4 digit phone PIN and press **YES**. The message '*SIM PIN Enabled*' will be shown on the screen and the phone will return to the Setup menu.

To change the SIM PIN

You can only change the SIM PIN when it is enabled.

1. Press **YES** from the SIM PIN Options Menu to enter a new PIN. The display will show the message **'Enter Old SIM PIN'**.
2. Enter the old PIN digits and press YES. The display will show **'Enter New SIM PIN'**.
3. Enter the new PIN digits and press YES. You may enter between 4 and 8 digits. The display will then show the message **'Confirm New SIM PIN'**.
4. Enter the new PIN digits again and press YES. The display will show **'New SIM PIN Accepted'** before returning to the Setup Menu.

If you make a mistake when confirming the PIN, the message **'SIM PIN Confirmation Error'** will be shown and you will be asked to re-enter the new PIN again.

When the PIN has been successfully confirmed, the phone will return to the Setup Menu.

NOTE:

If you enter the old PIN incorrectly, the message **'SIM PIN Error'** will be shown. If it is entered incorrectly three times, you will be notified that the PIN has become blocked.

To Disable the SIM PIN Lock

1. Press **SOFT LEFT**, **1**, **2**, **2** and press **3**. If the SIM PIN has already been disabled, you will not be prompted to enter the SIM PIN, otherwise the display will be:



2. Enter the 4 digit phone PIN and press **YES**. The message **'SIM PIN Disabled'** will be shown on the screen and the phone will return to the Setup menu.

NOTE:

If you enter the SIM PIN incorrectly, you will be notified of this and asked to re-enter it. If you enter it incorrectly three times, the SIM will be disabled and the message **'SIM Blocked'** will be shown on the display.

Controlling Your Calls

This section deals with controlling your calls by diverting, call waiting, conferencing or barring.

Call Divert

If call barring is already set, you may be unable to divert calls using the call divert feature. The network may send a request rejected message if you try to use this feature when call barring is set.

To Review the Call Divert Status

1. Press **SOFT LEFT, 5** to enter Advanced menu.
2. Press **1** for Divert menu.



3. Press **1** for Status.

The message '*Please Wait*' will be shown, before one of the following messages appears with the diverted number:

Either '*Call Divert Not Activated*' is shown or

Voice Call Divert On No Reply To
Data Call Divert On No Reply To
Fax Call Divert On No Reply To
Voice Call Divert Not Reachable To
Data Call Divert Not Reachable To
Fax Call Divert Not Reachable To
Voice Call Divert If Busy To

Data Call Divert If Busy To
Fax Call Divert If Busy To
Divert All Voice Calls To
Divert All Data Calls To
Divert All Fax Calls To
Divert All Calls To

The network may respond with a notification message for an unsupported service.

If more than one response message is available, you can scroll through them using the **SOFT** keys. If the divert number is longer than twelve characters, the other portion of the number will be substituted on the screen by a diamond character, to view the rest of the number, hold down the **<*** and **#>** keys for at least half a second.

The network's response will be accompanied by the RADIO PATH ACKNOWLEDGEMENT TONE being given in the earpiece. Press **NO** to return to the standby display. (The display will not change until **NO** is pressed). If only one response is received by the phone, then the response will be displayed for 4 seconds before returning to standby.

To Setup Call Divert

1. Press **SOFT LEFT, 5** to enter Advanced menu.
2. Press **1** for Divert menu.



- Press **2** for Set.



- Press **1** or **YES** to divert all calls, **2** to divert a call when the phone is engaged, **3** to divert incoming calls if you are not available, **4** to divert incoming calls when the phone is switched off.
- Select the basic service group for which the call diversion is to be set. The display will show:



- Press **1** for All Calls, **2** for Voice Only, **3** for Data Only or **4** for Fax Only. The display will show:



- Enter the number to which the calls are to be diverted. The number may be recalled from the memory store by pressing **MEM**, or from the Dialed, Received or Missed stores by pressing **SOFT RIGHT**. Press **YES** to set up the diversion.

The message *'Please Wait'* will be shown on the display. When the network has responded, the message *'Request Accepted'* will be shown,

accompanied by the RADIO PATH ACKNOWLEDGEMENT TONE in the earpiece.

The phone will then return to the standby display. It is possible to have more than one call diversion option set at any one time, i.e. each option can be set and cancelled individually (including Divert All Calls).

Notification that a Call has been Diverted

The network may inform the relevant parties when a call has been diverted and the RADIO PATH ACKNOWLEDGEMENT TONE will be played.

If the incoming call information includes a Calling Line Identification Presentation (CLIP) number, this will be displayed before the notification that a call has been diverted.

A notification message may also be sent if call diversion is active when an outgoing call is made. The display will show:



To Remove Call Diversion

- Press **SOFT LEFT**, **5** to enter Advanced menu.
- Press **1** for Divert menu.
- Press **3** for Cancel.
- Press **1** or **YES** to cancel divert all calls, **2** to cancel divert a call when the phone is engaged, **3** to cancel divert incoming calls if you are not available, **4** to cancel divert incoming calls when the phone is switched off.

5. Select the basic service group for which the call diversion is to be cancelled. The display will show:



6. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only or **4** for Fax Only.
7. The display will show the message '*Please Wait*' and then '*Request Accepted*' will be displayed. The RADIO PATH ACKNOWLEDGEMENT TONE will be played through the earpiece. The phone will then return to the standby display.

Call Waiting

Call Wait is a network subscription option which allows an incoming call to be held waiting when you are already in a call. If this option is not available or not activated, new calls trying to reach you when you are busy will be rejected and there will be no notification that you were being called.

Call Hold is a network subscription option that allows a call to be placed on hold when accepting a waiting call, or to start a new outgoing call. If the network allows, the party being placed on hold may be sent notification that their call is being put on hold. The notifications may be an audible announcement and the message '*On hold*' will be displayed on the screen. The calling party may also be sent notification when the call becomes active again.

You can retrieve a call from hold if the active call has ended or the active and held calls are switched.

Only a voice call or voice calls may be placed on hold.

To Check the Call Wait Status

1. Press **SOFT LEFT**, **5** to enter Advanced menu.
2. Press **2** for Call Wait menu.
3. Press **1** for Status.



One of the following messages will appear:

All Call Wait Services Activated

Data Call Wait Activated

All Call Wait Services Inactive

Data Call Wait Not Activated

Voice Call Wait Activated

Fax Call Wait Activated

Voice Call Wait Not Activated

Fax Call Wait Not Activated

There may be a short delay before the network responds to the status request, this will be indicated by the message '*Please Wait*' being shown on the display.

If there is one response then this will be displayed for 4 seconds before the phone returns to standby. If there is more than one response then the up and down arrows will be displayed to scroll the responses. Press **NO** to return to standby.

To Set Call Waiting

1. Press **SOFT LEFT**, **5** to enter Advanced menu.
2. Press **2** for Call Wait menu.

3. Press **2** for Set.



4. Select the basic service group for which the Call Wait is to be set. The display will show:



5. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only or **4** for Fax Only.

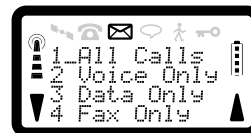
The message '*Please Wait*' will be shown on the display. When the network has responded, the message '*Request accepted*' will be shown, accompanied by the RADIO PATH ACKNOWLEDGEMENT TONE in the earpiece.

The phone will then return to the standby display.

To Cancel Call Waiting

1. Press **SOFT LEFT**, **5** to enter Advanced menu.
2. Press **2** for Call Wait menu.
3. Press **3** for Cancel.

4. Select the basic service group for which the call wait is to be cancelled. The display will show:



5. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only or **4** for Fax Only.

The message '*Please Wait*' being shown on the display. When the network has acknowledged the request, a message '*Request Accepted*' will appear in the display to confirm that the call waiting option has been cancelled. The phone will then return to standby.

Call Waiting In-Call Menu

When you are in a call, you may select the Call Waiting In-Call Menu to deal with the waiting call by pressing **SOFT LEFT**. The display will be:



1. Press either **1** or **YES** to end the active call and accept the waiting call.
2. Press **2** to place the active call on hold and accept the waiting call (if you are subscribed to this option and you do not have a call on hold). If you already have a call on hold this will bring up the message '*Call Already on Hold*' before reverting to the in-call display.
3. Press **3** to reject the waiting call and continue with the active call.

If you do not wish to accept the waiting call but you have not explicitly rejected it, it will time-out and go away.

Dealing with Multiple Calls

Placing a Second Call and holding the Current Call

If you are engaged in a call and wish to make or accept a second call without losing the original call, enter the number you wish to dial and press **YES** at any time. If the network accepts the request, the number which you entered will be dialled and the current call will be put on hold. The phone will display the message '*Call On Hold*', to remind you that your original call is still held.

To terminate both the active and held calls, press **NO**. Any waiting call will not be affected

Receiving/placing a Third Call

If you already have a call on hold and you receive a third call, you will be notified of this call in the same manner as before. You are able to accept or reject it from the Call Waiting In-Call Menu.

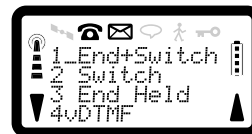
You will not be able to select 'Hld+Accept' from the menu. If you attempt to select this option, the message '*Call Already On Hold*' will be given before reverting to the in-call display. If you wish to accept the new call, you will need to end the current call first.

If you want to make an outgoing call when you are currently involved in two calls, you must first end one of the current calls.

Switching between Active Call and Call on Hold

When you are dealing with two calls, one active and another on hold, you can switch between them or end either one by using the Call Hold In-Call Menu.

1. Press **SOFT LEFT** from within the current call and the Call Hold In-Call Menu will appear:



2. Press **2** to Switch calls.

NOTE:

The network always gives privacy between held and active calls.

Placing a Call when the Called Party is Engaged

If you make an outgoing call to a party that does not have call waiting activated and is already engaged in a call, your call will be cleared down.

If the party does have call waiting activated, you may have the option of waiting for a period determined by the network until the called party becomes free. If the time period expires, your call attempt will be rejected or diverted.

The network will alert you that call waiting has been invoked and the RINGING TONE will continue. The message '*Waiting*' will be displayed until the call is answered, cleared, rejected or diverted.

Call Termination by Calling Party with another Call Held

If the active call was terminated by the calling party and there is a call on hold, this can be retrieved or rejected. Press **SOFT LEFT** and select desired action from the menu. If you use the **NO** key all calls will be ended.

Conference Calls

Call conferencing is a network subscription option that allows you to merge an active and a held call to form a single multi-connection call containing up to five remote parties. Once a conference call has been established remote parties can be added, disconnected and extracted as required. You can only control one conference call at a time.

NOTE: This service is a subscription based option which also requires subscription to the call hold service.

Only voice calls may be included in a conference call.

Another call can be made by putting the conference call on hold, by entering the new number and press **YES** at any time.

To Create a Conference Call

To create a conference call you must first have one active call and one call on hold. Once you have established this situation, from within the current call.

1. Press **SOFT LEFT** and **5** to enter the Conference Menu. The display will show '**1_Join**'.
2. Press **YES** to join the active and held calls into a single, active conference call. If the join request is not successful, the message '**Request Rejected**' will be shown.

The phone will return to the In-Call display, with the message.



You can repeat the procedure to add up to a total of five remote parties to the conference call. Press **SOFT LEFT** and **5** to enter the Conference Menu, press **1** to add new member.



Once a conference call has been established you can treat it as a normal call. For example, if you need to make another call you can place the conference call on hold (**SOFT LEFT, 2**) and make another call in the normal way.

To Review the Participants in a Conference Call

- If the conference call is the only call enter the Normal In-Call Menu. Press **SOFT LEFT** and **4** to display the Call List.
- If there is a conference call and a call on hold, press **SOFT LEFT, 5, 4** to display the Call List.

The display will show the first entry in the call list, for example:



The first line of the display shows the call number allocated to the remote party, this will be in the range of 1 to 5. If available, the call identifier (name) and telephone number will also be displayed. If these are unavailable (which is only possible with incoming calls), a message identifying the direction of the call will be displayed such as '**Incoming**'.

The bottom line of the display shows the state of the call, this is either **'Connected'**, **'On Hold'**, **'Call Held'** or **'Hung Up'**. If **'On Hold'** is displayed, the remote party has placed the call on hold. If **'Hung Up'** is displayed, the remote party has hung up and the network has not terminated the call but suspended it instead.

You can scroll through the call list using the **SOFT** keys, and review the details for each participant in turn. If you hold a **SOFT** key down for at least half a second, you will automatically scroll through the list.

To Extract a Participant in a Conference Call for a Private Conversation

To enter the Conference Menu, if the conference call is the only call and there are no held calls.

1. Press **SOFT LEFT, 5, 2**. The display will show the call list.
2. Scroll the call list using the **SOFT** keys. When the call you wish to extract is displayed. Press **SOFT LEFT**. An example of what the display will be is:



3. Press **YES** and the call will be extracted for a private conversation. The display will return to the Normal In-Call display. Alternatively, press **SOFT RIGHT** to abort the extraction at any stage.
4. To abort the extraction operation, press **NO**. The phone will return to the Call list.

If the conference call has been put on hold, you will not be able to extract a call from it.

The extraction operation also cannot be performed if a call has already been put on hold, the message **'Call Already On Hold'** will be displayed before returning to the Normal In-Call display.

If you have extracted a call from a conference call, it can be added to the conference call again by selecting **1** or **YES** from the Conference Menu.

To Disconnect a Remote Party from a Conference Call

1. Press **SOFT LEFT, 5, 3**. The display will be:



2. Press the **SOFT** keys to scroll to the call you wish to disconnect, then press **YES**. The display will show:



3. To disconnect the call, press **YES**, to abort the operation press **NO** and return to the Call List.

If no remote parties remain when the call is disconnected, the conference call will end.

Call Hold and Call Termination by a Remote Party

If, during a conference call, one of the remote parties either puts their call on hold or terminates it, the phone will inform you of these actions.

If a remote party places their call on hold, the message displayed will alternate between **'Conference'** and **'On Hold'**. You can use the Call

List, accessed by using option 4 in the Conference Menu, to identify which remote party has put their call on hold. If, while reviewing the Call List, a remote party places their call on hold, the message ***‘Conference Member Placed Call On Hold’*** will be displayed for four seconds before the display returns to the updated Call List.

If a remote party terminates their call, you will hear the normal call ending tone and the call ending message will be displayed in the normal way. The message ***‘Call X Ended’*** will then be displayed, where X is the call number (1 - 5) of the remote party that terminated their call. The call will then be deleted from the Call List. If a remote party terminates their call while you are reviewing the Call List, this message will be displayed and you will be returned to the updated Call List.

If no parties remain when the remote party is disconnected, the conference call will end.

Remote Party Notification

When a remote party joins a conference, the network may send notification that they are part of a conference call, by giving the message ***‘Conferencing’***. When further remote parties are added to the conference call, the remote parties may be notified of this.

Call Control Public MMI Commands Summary

When you are in a call, the call control commands can be accomplished without going into the menu by keying in one of the following GSM commands:

- | | |
|--------|--|
| 0 YES | Releases all held calls or sets User Determined User Busy (UDUB) for a waiting call. |
| 1 YES | Releases all active calls (if any exist) and accepts the other held or waiting call. |
| 1X YES | This ends the active call X (used in conference calls). |

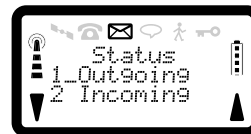
- | | |
|-------------|---|
| 2 YES | Places all active calls (if any exist) on hold and accepts the held or waiting call. |
| 2X YES | Places all active calls on hold except call X with which communication shall be supported (used in conference calls). |
| 3 YES | Adds a held call to the conversation (i.e. merges the active and held calls to form or add to a conference call). |
| NO | This ends all active and held calls, but not those that are waiting. |
| Tel No. YES | This places the active call on hold and sets up a new call to the telephone number dialled. |

Call Barring

The call barring service lets you control which kind of calls can be made to or from your phone. This feature is convenient if you lend your phone to somebody else. This feature is service dependent.

To Check the Call Bar Status

1. Press **SOFT LEFT**, **5** to enter Advanced menu.
2. Press **3** for Call Bar menu.
3. Press **1** for Status.



4. Press **1** to review the Outgoing Call Bar Status. The network will respond with one of the following messages:

No Outgoing Call Restrictions
All Services Barred Emergency Calls Only

Voice Calls Barred Emergency Calls Only

Messages Barred

Data Calls Barred

Fax Calls Barred

Internat'l Services Barred

Internat'l Voice Calls Barred

Internat'l Messages Barred

Internat'l Data Calls Barred

Internat'l Fax Calls Barred

Internat'l Services Barred Except (Home Country)

Internat'l Voice Calls Barred Except (Home Country)

Internat'l Messages Barred Except (Home Country)

Internat'l Data Calls Barred Except (Home Country)

Internat'l Fax Calls Barred Except (Home Country)

If more than one restriction is set, you can scroll through the messages one by one using the **SOFT** keys. Alternatively, the network may respond with a notification message for an unsupported service.

5. If you had pressed **2** the following messages would display:

No Incoming Call Restrictions

All Incoming Services Barred

All Incoming Services Barred When Roaming

Incoming Voice Calls Barred

Incoming Voice Calls Barred When Roaming

Incoming Messages Barred

Incoming Messages Barred When Roaming

Incoming Data Calls Barred

Incoming Data Calls Barred When Roaming

Incoming Fax Calls Barred

Incoming Fax Calls Barred When Roaming

The message(s) will remain on the screen until you press **NO**.

To Set Outgoing Call Barring

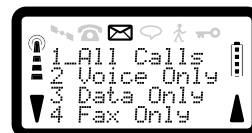
1. Press **SOFT LEFT**, **5** to enter Advanced menu.
2. Press **3** for Call Bar menu.



3. Press **2** for Set.
4. Press **1** or **YES** to set Outgoing Call Bar, the display will show the options.



5. Press a number to select the Call Bar option required. The display will show:



6. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only, **4** for Fax Only or **5** for Messages.

7. Enter network password and press **YES**.

If you do not have the password, contact your service provider for it. The display will show the message '*Request Accepted*', before returning to standby. If the password is entered incorrectly, the message '*Password Error*' will be displayed on the screen.

To Set Incoming Call Barring

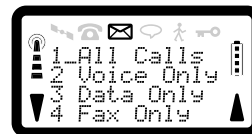
1. Press **SOFT LEFT**, then **5** to enter Advanced menu.
2. Press **3** for Call Bar menu.



3. Press **2** for Set.
4. Press **2** to set Incoming Call Bar, the display will show the options.



5. Press a number to select the Call Bar option required. The display will show:



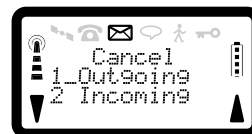
6. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only, **4** for Fax Only or **5** for Messages.

7. Enter network password and press **YES**.

If you do not have the password, contact your service provider for it. The display will show the message '*Request Accepted*', before returning to standby. If the password is entered incorrectly, the message '*Password Error*' will be displayed on the screen.

To Cancel Outgoing Call Barring

1. Press **SOFT LEFT**, **5** to enter Advanced menu.
2. Press **3** for Call Bar menu.
3. Press **3** for Cancel, the display will show the options.



4. Press **1** or **YES** to Cancel Outgoing Call Bar. The display will show:



5. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only, **4** for Fax Only or **5** for Messages.

6. Enter network password and press **YES**.

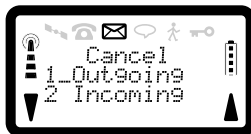
If you do not have the password, contact your service provider for it. The display will show the message '*Request Accepted*', before returning to standby. If the password is entered incorrectly, the message '*Password Error*' will be displayed on the screen.

To Cancel Incoming Call Barring

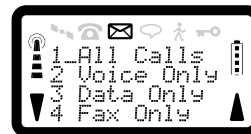
1. Press **SOFT LEFT**, **5** to enter Advanced menu.

2. Press **3** for Call Bar menu.

3. Press **3** for Cancel, the display will show the options.



4. Press **2** to Cancel Incoming Call Bar. The display will show:



5. Press **1** for All Calls, **2** for Voice Only, **3** for Data Only, **4** for Fax Only or **5** for Messages.

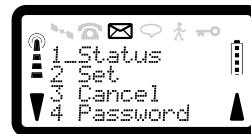
6. Enter network password and press **YES**.

If you do not have the password, contact your service provider for it. The display will show the message '*Request Accepted*', before returning to standby. If the password is entered incorrectly, the message '*Password Error*' will be displayed on the screen.

To Change the Network Password (for Call Barring)

1. Press **SOFT LEFT**, **5** to enter Advanced menu.

2. Press **3** for Call Bar menu.



3. Press **4** for Password, the display will show:



4. Enter the old network password and press **YES**.
5. Enter the new network password and press **YES**.
6. Enter the new network password again to confirm and press **YES**.

If the new password and its confirmation do not match, the message '**Password Confirmation Error**' will be given and you will be asked to confirm the new password again. If your old password is entered incorrectly the message '**Password Error**' will be displayed.

Once a positive network response has been received, '**New Password Accepted**' will be displayed before the phone returns to standby.

Sending And Receiving Text Messages

The Short Message Service (SMS) function allows you to send and receive text messages that contain up to 160 characters. Text messages can be received when the phone is in standby mode, when you are engaged in a call, or when incoming calls are diverted to another phone number.

Also, if you have had your phone turned off for a while the network will keep track of the message and send it to your phone as soon as it is turned on.

After a message is received, it is left in the SIM unless the SIM is full, then it is stored in the phone's memory. The message remains in the phone's memory until you read it. You can even turn off the phone and the message will remain intact. If you, on the other hand, change SIM Card, you will lose the unread message.

NOTE:

You need to set the service centre number before you can send any messages. If you only want to receive messages, you do not need to do anything.

Checking Subscription

Call your service provider to see which services your subscription supports, or check the service provider's manual.

Receiving a Message

When a message is received, provided that your GSM phone is switched on, the message is automatically stored on your SIM, depending on the class of the short message. The announcement '**Message**' and flashing

icon appear on the display and the phone's alerter emits the message alert tone. If you are engaged in a call, the message alert tone is heard in the earpiece and the Message Icon will be displayed.

If your phone is switched off, the network will store the message until your phone is next switched on. If your SIM is full, your phone will display the message '*Store Full*'. It is advisable to delete any unwanted messages at this stage.

The alerting tones produced by the alerter can be set to occur once only or to repeat once every minute until the message is read or the **NO** key is pressed. In a call, the tones are produced once only to avoid disrupting the call.

Quick access to unread messages

You can quickly access your unread messages with your phone in standby mode or even during a call. When Message is on the display and the Message Icon is flashing, press **SOFT LEFT** to view the earliest unread message.

NOTE:

Normal menu access function is overridden until you have viewed all of your unread messages.

You can scroll through this message, and all other messages, in the normal way. Press **NO** to return to standby or back to the call.

To Read a Message

1. Press **SOFT LEFT**, **3** to enter Messages menu.



2. Press **1** or **YES** to read messages. The display will show a chronological list of all stored messages, for example:



The * indicates any unread messages. Use the **SOFT** keys to select the message you wish to read and press **YES**. The beginning of the message is displayed:



The first line of the message indicates the number of the current message and the total number of messages stored. The second line of the message indicates the time and date at which the message was received by the service centre. Each message is displayed in groups of four lines or "pages".

Use the **SOFT** keys to scroll though the message line by line.

NOTE:

When you reach the end of the message, you can display the sender's telephone number by pressing **SOFT LEFT**. Pressing **SOFT LEFT** one more time will display the service centre's telephone number. If you have these numbers stored in memory, the associated "name" will also be displayed. A further press of **SOFT LEFT** will display the message type, for example *'Text'*.

If you wish to read the next or previous message, press **>** or **<**. The display will jump to the top of the relevant message. To exit the message and return to the standby display, press and hold **NO**.

Saving and Dialling a Number Received in a Message

1. Scroll through the message until the telephone number is displayed.
2. Press and hold **MEM** to store the number. If more than one number is shown on the display, your phone will recognise the first one contained completely within the current 4 line display. You can save this number in memory in the normal way or you can dial it directly from within the message.
3. To store the number in memory, the telephone number is automatically entered into the Number? field of the memory store, all you have to do is assign a "name" and memory store number to it. When you complete the store operation your phone will return you to the message you were viewing.
4. To call the number, press **YES**. When you end the call, your phone will return to the standby display.

Deleting a Message

As the memory space allocated to storing messages is limited, you will have to periodically delete old messages. You can delete messages while you are viewing the received messages directory and also while you are within a message.

Scroll to the message you wish to delete using the **SOFT** keys and press long **CLR**. *'Delete Message?'* is displayed. Press **YES** to delete this message and your phone will return to the store. If you delete the last message, your phone will display *'No Messages'* before returning to the Message Menu display.

If you wish to delete a message while you are reading it, press long **CLR** from within the message. *'Delete Message?'* is displayed. Press **YES** to delete this message and your phone will jump to the top of the next message.

Press **NO** to exit either of the two delete operations without clearing the message.

To Select Message Tones

The message alerting tone can be set to occur once only or to repeat once every minute until the message is read, the **NO** key is pressed, or the phone is switched off.

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **3** to display the Tones menu.



3. Press **1, 2** or **3** to set the message announcement tones to single play, repeating (once a minute) or to disabled. A confirmation message is displayed before your phone returns to the standby display. In a call, the tones are produced once only to avoid disrupting the call. Press **NO** to exit without changing the current setting.

Clearing Messages Automatically

The memory space allocated for messages is limited, and you may not wish to spend time periodically deleting old messages. You can set automatic message clearing to delete old messages that you have already read to make room for new ones.

NOTE:

The messages you have read will only be deleted when the message store is full and a new message is received. Unread messages will never be deleted, the display will show '*Store Full*' when there are only unread messages in the memory store.

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press 4, to display the Auto Clear Menu. The display will show:



3. Press **1** to enable or **2** to disable automatic message clearing. A confirmation message is displayed and your phone returns to the standby display.

Press **NO** to exit without changing the current setting.

Displaying Priority Messages Immediately

Your Service Provider or Network Operator can send priority messages directly to your phone's display rather than to be stored on your SIM. This Immediate Message Display feature can be disabled so the priority message is treated as a normal message and is stored on your SIM.

If your phone is busy, a priority message will be stored in the same way as any ordinary message you may receive.

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **5** to show the Display menu.



3. Press **1** to enable or **2** to disable the immediate display of priority messages as they arrive. A confirmation message will be displayed before your phone returns to the standby display.

Press **NO** to exit without changing the current setting.

Sending a Message

You can create a message by editing a copy of an existing message, by entering a completely new message, by selecting one of five "Built-in" messages, or by replying to or forwarding a received message.

To Originate a New Message

1. Press **SOFT LEFT, 3** to enter Messages menu.

- Press **2** to show the Originate menu.



- Press **1** or **YES** to display the Create Message Menu.



- Select an option or press **NO** to return to the beginning of the Originate Message Menu.
- To create a new message, press **1** to display a blank Message. The display will show:



NOTE:

You can now enter up to 160 alphanumeric characters (or spaces) to create a message. Additional characters will result in a warning tone and the message '*Message Too Long*' being produced.

To move through the text, hold the < * > keys down for at least half a second.

To Enter Message Text

Enter the first letter of the name by pressing the appropriate numeric key as many times as required. To change the character set to lower case press the **SOFT RIGHT** key, see Table "Lower Case Mode" on page 21.

NOTE:

Pressing the **SOFT RIGHT** key will cycle the character sets through Upper case, Lower case, Numeric, Greek and back to Upper case. The current mode is shown in the bottom right corner of the screen with the characters 'ABC' corresponding to Upper Case, 'abc' for Lower Case, etc.

For example, to enter the text: 'Meeting on 20.2.99', press the following keys: M (6), **SOFT RIGHT**, e (33), wait for a second, e (33), t (8), i (444), n (66), g (4), space (1), o (666), wait for a second, n (66), space (1), **SOFT RIGHT**, 2 (2), 0 (0), **SOFT RIGHT**, **SOFT RIGHT**, . (11), **SOFT RIGHT**, **SOFT RIGHT**, 2 (2), **SOFT RIGHT**, **SOFT RIGHT**, . (11), **SOFT RIGHT**, **SOFT RIGHT**, 9 (9), 9 (9). The display will show:



Spaces can be inserted in the message by pressing the 1 key once when not in the numeric mode.

To delete a character, press **CLR**. If you want to delete all of the text (but not the destination, service centre, validity or type information), press and hold **CLR**. *'Delete Message?'* is displayed. Press **YES** to delete the text. Press **NO** to return to the message text.

You can recall a phone number from memory by pressing **MEM** to gain access to the abbreviated dialled number stores in memory, locate the required number in the normal way and then press **YES** to insert it in the message.

When you have entered the message text, press **SOFT LEFT** to move to the destination address screen. Further presses of **SOFT LEFT** move to the Service Centre Address, Validity period, and Message Type screens. These must be completed before a message can be successfully sent.

On a Phase 2 SIM the destination address, service centre number and message type may be preset by your Service Provider.

A useful feature provided by the phone allows the destination address, service centre number, validity period and message type to be preset via the defaults menu.

To Enter the Destination Address

If you have not entered a destination address (recipient's phone number) via the default menu a *'Enter Number'* prompt will be displayed on the destination address screen. This prompt will disappear when you enter the first digit or recall a number from memory using **MEM**.

To Enter the Service Centre Number

If you have not entered a service centre number (provided by your service provider) via the default menu an *'Enter Number'* prompt will be displayed on the service centre address screen. This prompt will disappear when you enter the first digit.

To Enter the Validity Period

You can enter a period of time which tells the service centre how long to retain the message and keep trying to send it when the destination cannot be reached.

To help you when you first use this function, we have preset the validity period to 2 days.

To Select the Message Type

You can choose how the message will be transmitted from the service centre to the final destination. To help you when you first use this function the default is normal GSM text.

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **6** to display the Defaults Menu.
4. Press **4** to display Type.
5. Use the **<*** and **#>** keys to scroll through the message types stored in memory (Text, Fax, Voice, ERMES, Paging, E-mail and Voice Call I).
6. Press **YES** to select the one you wish to use.

To Review Your Newly Created Message

The **SOFT** keys now allow you to scroll through the message (including the parameter information) if you want to check it.

You can now save the message, or send it, or modify it as required.

To Create a Message from an Existing Message

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **2** to show the Originate menu.

3. Press **1** or **YES** to display the Create Message Menu.



4. Press **2** to display the first three lines of an old message that you originated and stored in memory. Use the **<*** and **#>** keys to scroll through the other messages stored in memory. Use the **SOFT** keys to scroll through the current message's contents.
5. Press **YES** to select the one you wish to use.
6. A copy of the message is created which you can edit if necessary (remembering to check the destination, service centre, validity and type).

To Create a Message Based on a Provided Message

1. Press **SOFT LEFT**, **3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **1** or **YES** to display the Create Message Menu
4. Press **3** to display the first three lines of the first message that is provided by the phone. Use the **<*** and **#>** keys to scroll through all five of these “built-in” messages. These messages are:

PLEASE CALL

PLEASE RETURN MY CALL ON

I WILL BE DELAYED UNTIL

I WILL MEET YOU AT

PLEASE RESCHEDULE MY APPOINTMENT WITH

5. Press **YES** to select the one you wish to use.
6. A copy of the message is created which you can edit if necessary (remembering to check the destination, service centre, validity and type).

To Send the Completed Message

1. Press **YES** to send message.
2. You will now be asked to confirm the destination address of your message. If you are not happy with it, then you can edit the number. Otherwise press **YES** again to confirm the destination address.
3. You will then be asked if you require a delivery report for the message. Note that some Network Operators or Service Providers may charge for the service.
4. Press **YES** to request a delivery report, or **NO** to reject the request. The message will then be sent to the network.

To Save a Message

1. If you wish to save your message during entry, press and hold **MEM**.



2. Press **1** to save the message in the SIM Memory or **2** to save it in the Phone Memory. If the memory is full, the message ‘*Store Full*’ will be displayed, otherwise a confirmation message will briefly appear. You can then continue to enter text, or press **YES** to send the message, or press **NO** to return to the message display.
3. Press **NO** to exit at any time without saving the message.

To Return to the Current Message (and complete it)

If you have had to leave a partially completed message to perform another function, for example answering a call, you can return to it as follows.

1. Press **SOFT LEFT**, **3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **2** to display the interrupted message in the state you left it. You can now continue editing the message as before.

To Delete a Message

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **3**, to display the first three lines of the first message that you stored in memory.
4. Use the **<*** and **#>** keys to scroll through the other messages stored in memory. You can use the **SOFT** keys to scroll through the current message's contents.
5. Press **YES** to select the one you wish to delete. '*Delete Message?*' is displayed.
6. Press **YES** to delete this message, and your phone will jump to the top of the next message. If you delete all the messages, your phone will display '*No Messages*' and then return to the Originate menu.

To Reply to a Received Message

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **4**, to display the Received Messages.
4. Use the **SOFT** keys to choose a message and press **YES** to select it. The first three lines of the message are displayed.
5. Use the **<*** and **#>** keys to scroll through the other messages and the **SOFT** keys to scroll through the message text.
6. You can edit the text if required and send the completed message as a reply (remember to check the destination address and service centre address before sending the message).

To Forward a Received Message to a Third Party

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **5**, to display the Received Messages.
4. Use the **SOFT** keys to choose a message and press **YES** to select it. The first three lines of the message are displayed.

5. You can use the **<*** and **#>** keys to scroll through the other messages and the **SOFT** keys to scroll through the message text.
6. Press **YES** and a copy of the message text is created. You then modify the destination, service centre, validity period and type to the copy if necessary and send the completed message to a third party.

To Set the Message Parameter Defaults

1. Press **SOFT LEFT, 3** to enter Messages menu.
2. Press **2** to show the Originate menu.
3. Press **6** to display the Defaults Menu. The display will show:



4. Select an option or press **NO** to return to the Originate Message Menu.
5. Enter values for the default destination address, service centre address, validity period and message type. When each value is entered to your satisfaction, press **YES** to set it as a default.

To Check on the Status of the Last Message Sent

At the Originate Message Menu, press **7** and the phone will return with either '*No Messages Sent*' or '*Message Rejected*', or after a short delay the service centre will send a priority message containing a status report. This feature is network dependent.

Warranty

Thank you for purchasing this Ericsson Product. To get maximum use of the features of your new product we recommend that you follow a few simple steps:

- Read the Guidelines for safe and efficient use.
- Read all the terms and conditions of your Ericsson Warranty.
- Save your original receipt. You will need it for warranty repair claims. Should your Ericsson Product need warranty service, you should return it to the dealer from whom it was purchased or contact your local Ericsson helpdesk to get further information.

Our Warranty

Ericsson warrants this Product to be free from defects in material and workmanship at the time of its original purchase by a consumer, and for a subsequent period of one (1) year.

All accessories for the Product are covered by a warranty for a period of one (1) year from the date of its original purchase by a consumer.

What We Will Do

If, during the warranty period, this Product fails to operate under normal use and service, due to improper materials or workmanship, Ericsson subsidiaries, authorised distributors or authorised service partners will, at its option, either repair or replace the Product in accordance with the terms and conditions stipulated herein.

Conditions

1. The warranty is valid only if the original receipt issued to the original purchaser by the dealer, specifying the date of purchase and serial number, is presented with the product to be repaired or replaced. Ericsson reserves the right to refuse warranty service if this

information has been removed or changed after the original purchase of the product from the dealer.

2. If Ericsson repairs or replaces the Product, the repaired or replaced Product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may be via functionally equivalent reconditioned units. Replaced faulty parts or components will become the property of Ericsson.
3. This warranty does not cover any failure of the Product due to normal wear and tear, misuse, including but not limited to use in other than the normal and customary manner, in accordance with Ericsson's instructions for use and maintenance of the Product, accident, modification or adjustment, acts of God, improper ventilation and damages resulting from liquid.
4. This warranty does not cover product failures due to repair installations, modifications or improper service performed by a non-Ericsson authorised service workshop, opening of the product by non-Ericsson authorised persons, or use of non-Ericsson original accessories.
5. Batteries are warranted only if battery capacity falls below 80% of rated capacity. This warranty becomes void if the batteries are charged by non-Ericsson original battery chargers.
6. Tampering with any of the seals on the products will void the warranty.
7. THERE ARE NO OTHER EXPRESS WARRANTIES, WHETHER WRITTEN OR ORAL, OTHER THAN THIS PRINTED LIMITED WARRANTY. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL ERICSSON BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT

LIMITED TO LOST PROFITS OR COMMERCIAL LOSS. TO
THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED
BY LAW.

Some countries do not allow the exclusion or limitation of incidental or consequential damage, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from country to country.

5,341,456	5,511,073	5,602,833	5,687,229
5,373,259	5,528,593	5,603,096	5,689,557
5,383,219	5,544,196	5,604,730	5,691,974
5,392,287	5,546,459	5,617,060	5,692,006
5,396,516	5,561,618	5,621,784	
5,408,697	5,566,000	5,621,853	
5,414,796	5,566,206	5,625,876	

Patents

This product is manufactured under licence to one or more patents of QUALCOMM Incorporated, other patents pending.

4,901,307	5,416,797	5,566,357	5,627,857
5,056,109	5,426,392	5,568,483	5,629,955
5,099,204	5,442,627	5,572,172	5,629,975
5,101,501	5,452,473	5,574,773	5,633,881
5,103,459	5,461,639	5,576,662	5,638,412
5,107,225	5,469,115	5,577,022	5,640,414
5,109,390	5,475,870	5,577,025	5,642,398
5,228,054	5,479,475	5,581,575	5,644,591
5,257,283	5,485,486	5,588,043	5,644,596
5,265,119	5,487,175	5,590,069	5,646,991
5,267,261	5,490,165	5,590,406	5,652,599
5,267,262	5,497,395	5,590,408	5,654,979
5,283,536	5,499,280	5,592,481	5,655,220
5,289,527	5,504,773	5,592,548	5,657,420
5,307,405	5,506,865	5,594,718	5,666,122
5,309,474	5,509,015	5,596,570	5,673,259
5,339,046	5,511,067	5,600,754	5,675,644

Use of this product for data messaging and position determination services for fleet management (motor vehicles, rail cars and/or vessels) and systems which provide data communication, monitoring and control between remote fixed sites and a central point are not authorized under the manufacturer's license agreement and are prohibited.

The Ericsson Policy is one of continuous development and consequently the information contained within this publication may vary in detail. All specifications and accessories are subject to change without prior notice. Some operational features described may not be available with early software releases.

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