










Special Keys

-  Press to see more information on the current operation.
-  Press to access the Options menu.
-  Press to accept call, setting, option,...
-  Press to access the Messages menu.
-  Press to access the Phone Book menu.
-  Press to reject call, setting, option,...
-  Press to turn phone on and off.
-  Reserved for use with a future feature.
-  Press to switch privacy mute on and off during a call.



Making a Call

Enter **Phone No.** .





Receiving a Call

Press  or lift the handset from the hang up cup.



Ending a Call

Press  or , or replace the handset in the hang up cup.

Making an Emergency Call

Enter    . The call will be directed to a central emergency operator.

Calling the Last Number Dialed

- 1 Press the  key. The last number dialed will be shown in the display.
- 2 Press  to call the number.







One Touch Dialling

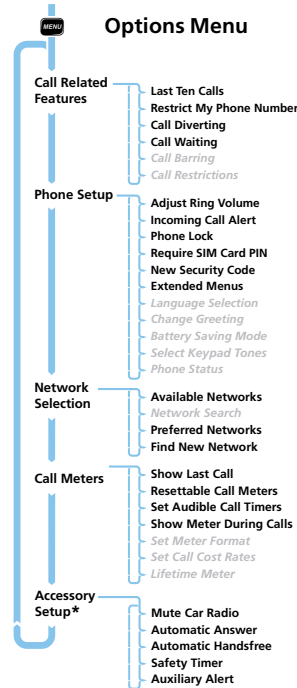
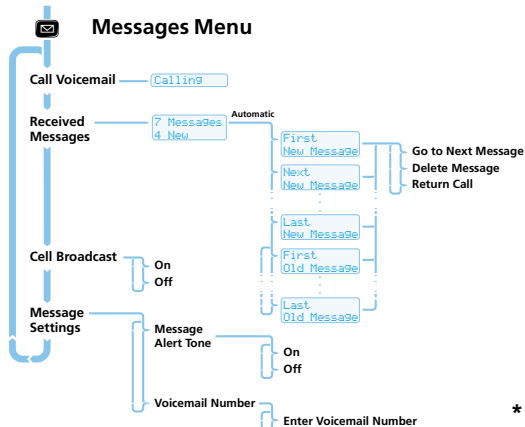
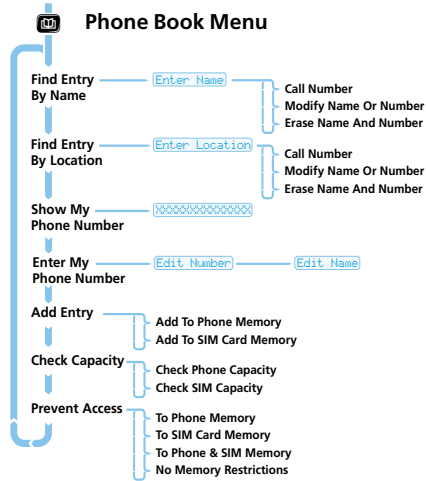
Press and hold the appropriate digit key  to .

Dialling Phone Book Numbers

Press  **Location**  .

Storing Numbers in the Phone Book

- 1 Press and hold  to access the Phone Book.
- 2 Press  to choose whether to store the number in the phone memory or the SIM card memory. Press .
- 3 Enter **Phone No.**  (remember to include the full area code).
- 4 Enter the name followed by  and then the location number followed by .
- 5 The phone will confirm the location of the stored number, for example: **Stored 123**.



Menu Navigation



Items shown in *italics* are available only when **Extended Menus** are enabled.

* The **Accessory Setup** section is not available in transportable mode.

Introduction



Congratulations on your purchase of a cellular telephone from *Motorola*, the world leader in cellular technology.


All Motorola cellular telephones are manufactured to exacting specifications and world-class quality standards, and are designed to withstand the harshest environmental conditions. Our commitment to *Total Customer Satisfaction* and over sixty five years of experience in personal communications mean you can depend upon the quality of this Motorola product.

This cellular telephone incorporates *Personality™*. Unique to Motorola, *Personality™* removes the complexity of cellular communications by guiding you through the features and presenting you with simple choices every step of the way. *Personality™* also allows you to personalise the way you use your phone - for example, different ringer tones, a phone book and network selection preferences - all presented with clarity and simplicity. In this manual, each of the *Personality™* features is identified with an **OK** symbol to indicate that it is customisable to meet your requirements.

This cellular telephone has been designed for use with the worldwide GSM (Global System for Mobile communications) network. By using digital communications methods, your phone provides a number of advantages over traditional cellular systems:

- Superior speech quality is attained without the usual background noises and interference.
- Network encryption of the signal is supported. Conversations cannot be eavesdropped using scanning equipment when the signal is encrypted.
- You are not restricted to use within one country.

Your subscriber number is not contained within the phone as with other systems. Instead, a 'Smart Card' known as a SIM (Subscriber Identity Module) is supplied by your Cellular Service Provider. All call billing is made to the subscriber number on the card whether it is used in this or any other GSM unit.

 Before you use your phone in transportable mode, please ensure that you charge the battery for at least 14 hours.

Understanding this Manual

Explains how to use this manual 4

Safety

Important information for the efficient and safe operation of your phone 5

Using Your Phone

Introduces your phone and explains how to make a call 9

Menu Navigation

Explains how to access and use the phone's menus 19

Using The Phone Book Menu

Provides an explanation of the Phone Book Menu and how to use it 21

Using The Messages Menu

Provides an explanation of the Messages Menu and how to use it 27

Using The Options Menu

Provides an explanation of the Options Menu and how to use it 31

Using the Transportable

How to make full use of your phone in transportable mode 53

Accessories

Details the accessories available for use with your phone 57


Index

A comprehensive index 61



Understanding this Manual

The Phone Operation and Menu System




Your phone has been designed to be used in as simple and consistent a manner as possible. We have made the next, most obvious, action selectable by pressing the  key.

Many of your phone options are accessed by a simple, three key, menu system. A full description of the menus and how to move around them is covered in the later section **Menu Navigation**. When the manual describes the use of each menu item, it will be assumed that you are familiar with the menu system.

The Keys

The key press features of your phone are represented in this manual using symbols, so that you may locate and use the required sequence quickly. A sequence of key presses may be shown as follows:



This means that you should press the  key followed by the  key and then the  key, in sequence, not simultaneously.


Multiple Key Presses

Symbols, such as the following, will appear in this manual. They are not keys on the phone, but they represent multiple key presses. For example:

 - enter the required telephone number.

 - enter your Personal Identification Number.

 - enter your unlock code.

 - enter the location number.

The Display

The LCD display of your phone is also represented graphically within this manual, either as a full screen display such as this:







or as a line of text or symbols such as this:

Enter PIN, , 

Other Symbols

You will find the following symbols used throughout this manual:

-  A **Note** contains additional information which is relevant to the feature/item.
-  A **Caution** contains important additional information which is relevant to the efficient and/or safe usage of your phone.
-  This symbol indicates that the feature is a **Personality™** feature that can be customised to meet your requirements.
-  This symbol indicates a quick access key sequence for the feature.

IMPORTANT

READ THIS INFORMATION BEFORE USING YOUR TRANSPORTABLE CELLULAR TELEPHONE

The cellular telephone is one of the most exciting and innovative electronic products ever developed. With it you can stay in contact with your office, your home, emergency services, and others.

General

For the safe and efficient operation of your phone, observe these guidelines.

Your transportable cellular telephone is a radio transmitter and receiver. When the phone is ON, it sends out and receives radio frequency (RF) energy. The phone operates in the GSM frequency range of 890MHz to 960MHz (or DCS 1800 frequency range of 1710MHz and 1880MHz) and employs commonly used Time Division Multiple Access (TDMA) digital modulation techniques. When you use your phone, the cellular system handling your call controls the power level at which your phone transmits. The pulsed power level can range from 0.02 of a watt to 8 watts.

Exposure to Radio Frequency Energy

Research on health effects from RF energy has focused for many years on FM radio technology. That research and studies regarding newer radio technologies, such as TDMA, have found no credible scientific evidence that adverse health effects result from the use of a portable cellular telephone.

In 1991 the Institute of Electrical and Electronic Engineers (IEEE), and in 1992 the American National Standards Institute (ANSI) adopted the 1982 ANSI standard for safety levels with respect to human exposure to RF energy.

Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry, after reviewing the available body of research, developed this updated standard. In March, 1993 the Federal Communications Commission (FCC) of N. America proposed the adoption of this updated standard. To operate within this updated ANSI standard, use your phone as described under "Efficient Phone Operation".

Efficient Phone Operation

Do not operate your transportable cellular telephone when holding the antenna, or when any person is within 10 centimetres (4 inches) of the antenna.

Of course, if you want to limit RF exposure even further than the updated ANSI standard, you may choose to control the duration of your calls or maintain a distance from the antenna of more than 10 centimetres (4 inches).

For best call quality, keep the antenna free from obstructions and point it straight up.

Antenna Care and Replacement

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Replace a damaged antenna immediately. Consult your manual to see if you may change the antenna yourself. If so, use only a manufacturer-approved antenna. Otherwise, have your antenna repaired by a qualified technician.

Use only the supplied or approved antenna. Unauthorised antennas, modifications or attachments could damage the phone and may contravene local RF emission regulations or type approval.



Driving

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

- give full attention to driving,
- use hands-free operation, if available, and
- pull off the road and park before making or answering a call if driving conditions so require.



Electronic Devices

Most electronic equipment, for example in hospitals and motor vehicles is shielded from RF energy. However, RF energy may effect some malfunctioning or improperly shielded electronic equipment.

Vehicle Electronic Equipment

Check with your vehicle manufacturer's representative to determine if any on board electronic equipment is adequately shielded from RF energy.

Medical Electronic Equipment

Consult the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc.) to determine if they are adequately shielded from external RF energy.

Turn your phone **OFF** in health care facilities when any regulations posted in the area instruct you to do so. Hospitals or health care facilities may be using RF monitoring equipment.

Aircraft

Turn your phone **OFF** before boarding any aircraft.

- Use it on the ground only with crew permission.
- Do not use in the air.

To prevent possible interference with aircraft systems, Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent interference with cellular systems, local RF regulations prohibit using your phone whilst airborne.

Children

Do not allow children to play with your phone. It is not a toy. Children could hurt themselves or others (by poking themselves or others in the eye with the antenna, for example). Children could damage the phone, or make calls that increase your telephone bills.

Blasting Areas

To avoid interfering with blasting operations, turn your unit **OFF** when in a "blasting area" or in areas posted: "turn off two-way radio". Construction crews often use remote control RF devices to set off explosives.

Potentially Explosive Atmospheres

Turn your phone **OFF** 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 decks 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 phone or accessories.

Before using your phone in a vehicle powered by liquefied petroleum gas (such as propane or butane) ensure that the vehicle complies with the relevant fire and safety regulations of the country in which the vehicle is to be used.

This Cellular Telephone complies with all applicable RF safety standards.

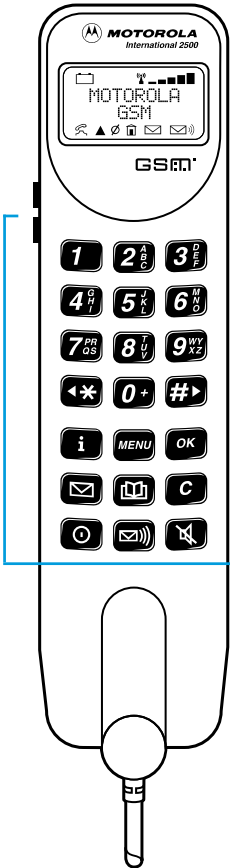
This cellular telephone meets the standards and recommendations for the protection of public exposure to RF electromagnetic energy established by governmental bodies and other qualified organisations, such as the following:

- **Verband Deutscher Elektroingenieure (VDE) DIN-0848**
- **Directives of the European Community, Directorate General V in Matters of Radio Frequency Electromagnetic Energy**
- **National Radiological Protection Board of the United Kingdom. GS-11, 1988.**
- **American National Standards Institute (ANSI)/IEEE. C95. 1-1992**
- **National Council on Radiation Protection and Measurements (NCRP). Report 86**
- **Department of Health and Welfare Canada, Safety Code 6.**





Introducing Your Phone



Special Keys

- Press to see more information on the current operation.
- Press to access the Options menu.
- Press to accept call, setting, option,...
- Press to access the Messages menu.
- Press to access the Phone Book menu.
- Press to reject call, setting, option,...
- Press to turn phone on and off.
- Reserved for use with a future feature.
- Press to switch privacy mute on and off during a call.

The Other Keys

- .. The digit keys, used to enter phone numbers, security codes and other numeric items.
- Press to move backward and forward through entries.

Volume Buttons

The buttons on the left hand side of your phone adjust the earpiece and keypad tone volume levels. Volume is increased with the upper button and decreased with the lower button.

Adjusting the Earpiece Volume

Press the volume buttons during a call.

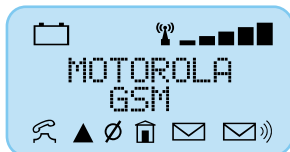
Adjusting the Keypad Tone Volume

Press the volume buttons when not in a call.



The Display

The Liquid Crystal Display (LCD) on your phone can display two rows of twelve alphanumeric characters as well as useful information symbols.



The various elements of the display are as follows:

ABC123 Characters are used to display messages and telephone numbers.



Battery Charge Level (Transportable only).

When the battery is fully charged this symbol will be on. As the battery charge is used, the symbol will begin to flash slowly. The flash will become rapid when the battery is nearly depleted. Replace or recharge the battery at this point.



Signal Strength. The more segments displayed in the bar graph, the better the signal strength.



In Use. Displayed when a call is in progress.



Roam. This symbol will be on, or flashing, when you are registered on a system other than your home system.

On, for preferred networks.

Flashing, for non-preferred networks.



No Service. This symbol will be on when you are out of cellular system coverage, you will not be able to make or receive calls.

The symbol will flash, when you are in an area with coverage but are not registered on the system. You will be able to make emergency calls using the special GSM emergency number, 112, but cannot make or receive ordinary calls.



Home Service. This is reserved for use with a future feature.



Short Message Service. When the phone has received a message this symbol will be on. The symbol will flash when your message storage area is full.



Voicemail. This is reserved for use with a future feature.

Low Temperature Use

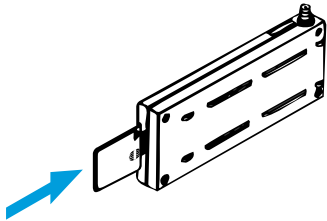
The liquid crystal display screen used in your phone will behave differently at extremely low temperatures. You may notice that the display responds slowly to key presses, this is to be expected and does not affect the phone operation in any way.

Using Your SIM Card

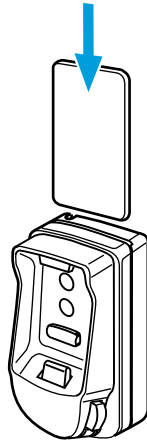
SIM Card Insertion

The SIM card can be inserted into the phone at any time, before or after the phone is switched on.

Insert the SIM card into the transceiver or remote card reader as shown. Line up the triangle mark on the SIM card with the triangle mark on the device being used and then push in the SIM card as far as it will go.



Transceiver



Remote Card Reader

If the SIM card is inserted the wrong way round, or damaged, the **Check Card** message may be displayed. Remove the SIM card, check that it is the right way round and then re-insert it.


If either of the **Bad Card See Supplier** or **Blocked See Supplier** messages are displayed, then you will need to contact your Cellular Service Provider.

Remote Card Reader

When SIM cards are loaded into both the transceiver and remote card reader, your phone will only recognise the SIM card in the remote card reader (the one in the transceiver will be ignored). If you later remove either SIM card, the other will take over control of the phone.



Switching the Phone On and Off

To switch the phone on or off press the  key.



If you are switching the phone on and there is no SIM card inserted, you will be asked to insert one. Once inserted, the phone will check that the SIM card is valid.

Two security codes may be requested at this point:



- the SIM card PIN code
- the phone unlock code.



Entering Your SIM Card PIN Code


To enter the PIN code, press  .

As you type in each digit of the PIN code a * character will be displayed.

If you have made a mistake, pressing and releasing the  key will remove the last digit. Holding the  key down will remove the entire entry.

When the PIN code is complete press the  key.

If the PIN code entered is incorrect, the warning message **Wrong PIN** will be displayed, followed by **Enter PIN**.

 *If the PIN number is entered incorrectly three times in a row, your phone will automatically lock-up and the **Blocked** message will be displayed.*

The code can be changed, see 'Change SIM PIN Code' in the **Options Menu** section for more details.


Unlocking Your SIM Card

To unlock your SIM card, enter the following key sequence:

     **Unlock Code**  **New PIN Code** 
New PIN Code 

The 8 digit unblocking code will have been provided with your SIM card by your Cellular Service Provider.

The new PIN code must contain four to eight digits.

 *If this operation is performed incorrectly 10 times in a row, your SIM card will become permanently blocked.*

Entering Your Unlock Code


If your phone displays the message **Enter Phone Unlock Code** you must enter your unlocking code by pressing

Unlock Code .

The unlock code is a four digit number which is set at manufacture to **1234**. The code can be changed, see 'Change Unlock Code' in the **Options Menu** section for more details.


Phone Calls

To make or receive a phone call, your phone must be switched on, unlocked and have the antenna pointing up (transportable mode).


If the \emptyset symbol is showing, your phone has been unable to find a cellular service. It will not be possible to make or receive a phone call unless you move to an area where there is a GSM service. When a service has been found, a series of rising bars, , will show the signal strength.




There are a number of different ways to make a phone call:


- Using the digit keys.
- Using automatic redial.
- Redialling the last number called.
- One touch dialling a Phone Book entry*.
- Dialling a Phone Book entry*.
- Calling an embedded number in a message.

 *Your phone contains a 'phone book' that can be used to store names and telephone numbers.

Making a Phone Call

The simplest method of making a phone call is to enter the number using the digit keys then press .

 If you make a mistake, press and release the  key to remove the last digit. Holding the  key down will remove the entire number.


Your phone will then attempt to make the phone call. The display will show **Calling** to show the call attempt is being made. If the call is not answered, pressing  or replacing the handset at this point will end the attempt.

When the phone call is answered, the display will change to **Connected** for a few seconds, followed by **End Call?**.

To end your call press  or , or replace the handset in the hang up cup.

If service is temporarily interrupted during a phone call, the message **Reconnecting** may appear. Your phone will automatically try to reconnect the call if possible.

Automatic Redial

If your call attempt does not succeed, the message **Redial?** will be displayed for five seconds. Pressing  at this point will automatically redial the phone number.

When the call is answered, you will hear a short ring tone.

The maximum number of redial attempts is set by your Cellular Service Provider. If the phone call cannot be connected within this maximum, the message **Redial Failed** will be shown.





Redialling the Last Number Called

To call the last number dialled, press the **OK** key when in standby mode. The last number dialled will be shown in the display, press **OK** to call the number.

OK One Touch Dialling Phone Book Numbers

To quickly retrieve and dial a number stored in Phone Book locations 1 to 9, press and hold the appropriate digit key. For example, pressing and holding **2** will dial the phone number stored in location 2 of your Phone Book.

You do not need to press **OK** to call the number.

OK Dialling Phone Book Numbers

To quickly retrieve a number from your Phone Book:

Press **Location**. For example **23** will retrieve the phone number stored in location 23 of your Phone Book.

Press **OK** to call the number.

Calling an Embedded Number in a Message

Details on how to call a number embedded in a message are given in *Using the Messages Menu*.

International Phone Calls

To make an international phone call press and hold the **0+** key. After a couple of seconds the international dialling prefix **+** will appear in the display, this allows you to call from any country without knowing the local international access code.

Now enter the country code, followed by the phone number. The country code follows the conventional format, 49 for Germany, 44 for the UK, 46 for Sweden, etc.


Just like a conventional international call, remove the leading '0' of the area code when you dial.

Inserting Pauses Into Phone Numbers

To obtain a three second 'pause' character in a phone number, press and hold the ***#** key for a couple of seconds, the pause symbol **▣** will appear.

The pause character produces a three second delay whenever it is used. However, the first pause character in a phone number is a special case, it will not begin its delay until the call is answered.

Pause - A Working Example.

If, for example, you have a tone-based voicemail system on 555-6911, with a mailbox number 1066# and password 2001#. Then you may dial the following number
5556911#1066#2001 .

The first part of the number would be used to call the voicemail system.

When the call is answered the first pause will produce a delay of three seconds before the tones for 1066 are sent to select the mailbox.





There will be a second pause of three seconds before the tones for 2001 are sent as the password.

GSM Emergency Calls

The worldwide GSM network provides a standard number, 112, to dial in cases of emergency.

Provided that your phone has found a network, you will be able to make an emergency call. The call can be made with or without a SIM card inserted and regardless of any security codes.


The emergency call will be directed to a central emergency operator.

To dial the GSM emergency number, press    .


While the emergency call is being made and connected, the display will show **Emergency**.

Receiving a Phone Call


When your phone receives a call, it will ring and the display will show the **Call** message (if the caller's phone supports the Caller Line Identification option, their number will be displayed instead).

Press  or lift the handset from the hang up cup to answer the call.

If you do not wish to answer a call you can either:



Press and release the  key. If you have enabled the 'Detailed Diverting - If Busy' option in the **Options Menu**, the caller will be diverted to the forwarding number, otherwise the caller will hear the busy tone.

or

Press and hold the  key. This will reject the incoming call. No call divert option will be offered.

If your phone rings and you do not answer it, the message **Unanswered Call** will be displayed to show you that a call attempt was received.




Ending a Phone Call

To end a phone call, press  or , or replace the handset in the hang up cup.






Handsfree Calls

Making a Handsfree Phone Call

Leave the handset in the hang up cup. Enter the number using the digit keys, press , and talk into the microphone. End the call by pressing  or .




Receiving a Phone Call Handsfree

Leave the handset in the hang up cup. Answer the phone by pressing  and talk into the microphone. End the call by pressing  or .

Switching from Handsfree to Handset







Lift the handset from the hang up cup.

Switching from Handset to Handsfree

Press  and replace the handset in the hang up cup.

Storing Numbers in the Phone Book

You can store up to 255 names and telephone numbers in your Phone Book. Full details on how to use the Phone Book are given in the *Using the Phone Book* section, however, the following steps provide a brief overview of how to store a number in the Phone Book.

- 1 Press and hold  to access the Phone Book.
- 2 Press  to choose whether to store the number in the phone memory or the SIM card memory. (If you store the number on your SIM card then it is accessible if you use your SIM card in another phone.) Press .
- 3 When prompted, enter the number you wish to store (remember to include the full area code) followed by .
- 4 When prompted, enter the name followed by  and then the location number followed by .
- 5 The phone will confirm the location of the stored number, for example: `Stored 123`.

DTMF Tone Dialling

The tones produced by your phone when you press the keys are known as Dual Tone Multi Frequency tones, or DTMF tones for short.

Some possible uses of the DTMF tones are to:

- Get messages from answering machines.
- Signal pagers.
- Control tone operated voice/mail systems.

Your phone will produce DTMF tones when you press the following keys:

0*, **1**,, **8***, **9***, ****** or **#***

When you press these keys during a phone call, the DTMF tones will be produced and the display will show the keys pressed.

In addition to showing the keys pressed, the display will also show **Call?**. This message will be removed, three seconds after the last key press.

If you press **OK** at this point, your phone will place the current call on hold and attempt to call the number entered.



OK *Phone Services*

Your phone offers a number of services that enable you to make more efficient use of the GSM network and your time.

The following services are provided:

- Call Holding and Call Waiting - allows you to place a current phone call on hold and either accept an incoming call or start a second call.
- Call Diversion - allows you to divert incoming calls to another phone number.
- Short Message Services - allows you to receive text messages.
- Call Metering - provides you with individual and total call times or costs.
- Network Selection - allows you to travel and be able to select different cellular networks so that you always have the best coverage.

These services are covered in detail later in this manual.



What is Menu Navigation?




A large number of your phone's options are accessed by using menus. The Phone Book, Short Message Services and Options menus all use a common approach for selection, change and cancellation.




Please read this section carefully before attempting to access a menu option. When you understand the common approach to menu navigation and how the menus are shown on the page, you will be able to access and change options with ease.

The menus described here can only be accessed when the phone is in the standby mode. Menu operation is not possible when you are making or answering a phone call.



Entering the Menus

Three different keys are used to access each of the three menus:



-  accesses the Phone Book menu
-  accesses the Messages menu
-  accesses the Options menu


Once entered, each of these menus use the ,  and  keys in a common manner to access and change individual options.


Leaving the Menus

To leave any of the menus, you can either, press and hold the  key or repeatedly press the  key. Both of these actions will return your phone to the standby mode.

Moving to and Selecting a Menu Option

Each time you press the  key, the next menu item at the current level is displayed. This menu item will not be 'selected' unless you press the  key.

Some of the menu items are merely a means of accessing a sub-menu. When a sub-menu is selected, pressing the  key will display the next sub-menu item.

To leave an option or sub-menu, press the  key. This will take you back to the 'parent' menu item.

Menu Options with Multiple Settings

Many of the options have multiple settings, such as **On** or **Off**, or **High**, **Medium** or **Low**. The current setting of such options will be indicated by the **+** character.



Using The Phone Book Menu


What is the Phone Book ?

You can store up to 255 names and telephone numbers as entries in an electronic 'Phone Book'. These entries are stored in both the phone's and SIM card's memory and can be used for fast dialling.

Your phone can store 100 entries and the SIM card can store up to 155 entries. The number of SIM card entries will vary depending upon the type of SIM card issued by your Cellular Service Provider.

Each Phone Book entry comprises:

- A telephone number. Up to 32 digits can be stored, but this is reduced to 20 digits for SIM card locations.
- A name. Up to 16 characters for phone locations. Up to 50 characters for SIM card locations, but typically 10 or less.
- A location label from 1 to 255.

To access the Phone Book menu press the  key. **Phone Book Options** will appear, a second press of the  key will display the **Find Entry By Name** menu item. Use the navigation keys ,  and  to select the Phone Book option you wish to use.



How to Enter a Name

The **0**, **1**,, **8** and **9** keys are used to enter characters when you are asked to enter a name.

For example, if you press the **5** key, the first displayed character will be **J**. If this is not the required character, then you can press the same key again to show **K**. Another press will display **L**, another... ..will display **5**. Your phone will continue to scroll through the characters available on the selected key with each new key press.

A long press of any of the keys will switch all the characters to lower case, a second long press will switch back to upper case.



To enter the next character press the appropriate key. If, however, the next character is on the same key as the previous character you will first need to press the **#** key. Pressing the **#** key a second time will produce a space.

If a mistake has been made, you can go back to the incorrect character by pressing *****.

Characters can be removed from the name by pressing the **c** key.

The character *before* the cursor (■) is the character which will be deleted.

When the name is complete press the **OK** key.

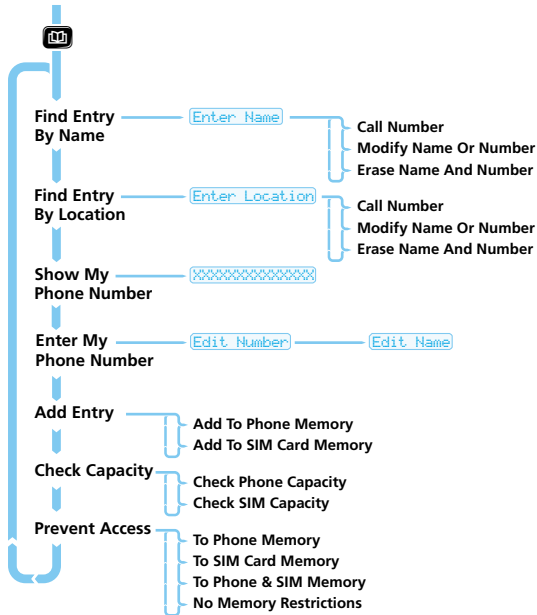
Available Characters for Names

Press the appropriate keys to get the following characters:

1	Space . ? ! , & : " () ' & % £ \$ 1 Space . ? ! , & : " () ' & % £ \$ 1
2	A B C Ä Å à å Å ß 9 2 a b c ä å à å æ ß 9 2
3	D E F Ä É è Ë 3 d e f ä é è ë 3
4	G H I Γ ï 4 g h i Γ ï 4
5	J K L Å 5 j k l Å 5
6	M N O Ö ö Ø ò Ω 6 m n o ö ö ø ò Ω 6
7	P Q R S Π ß Σ 7 P q r s Π ß Σ 7
8	T U V ð Ú ù 8 t u v ð ú ù 8
9	W X Y Z ≡ Ψ 9 w x y z ≡ Ψ 9
0	+ - x * / = > < # 0 + - x * / = > < # 0

The top line(s) for each key show the upper case characters, the lower line(s) show the lower case.

The Phone Book Menu Items



Menu Navigation



Find Entry By Name

This option is used to select a telephone number from a list of alphabetically sorted Phone Book names.

Once selected, this option will display the message **Enter Name**. You can enter the first three characters of a name. You do not need to enter all three characters, but a longer entry will result in a more accurate search.

The Phone Book entries will be searched and the first matching entry will be displayed.



If you did not enter any name information, the first alphabetical entry will be displayed.

If there are no names stored, **No Names Stored** will be displayed.

To display adjacent Phone Book entries use the **←*** and **#→** keys. When the desired name is displayed press the **OK** key to select it. The phone will now enter the 'Call Number', 'Modify Name Or Number' or 'Erase Name And Number' options sub-menu.



Find Entry By Location

 Press  **Location** - you must enter the location within two seconds.




This option is used to select a telephone number from a list of numerically sorted Phone Book locations.

Once selected, this option will display the message **Enter Location**. You can now enter a location number. If the entered location is not valid, a timed message **Range 1-XXX** will be displayed and the phone will return to the **Enter Location** menu item.

The Phone Book entries will be searched and an entry will be displayed.

If you did not enter a location, the first numerical entry will be displayed.

If there are no names stored, **No Names Stored** will be displayed.


To display adjacent Phone Book entries use the  and  keys. When the desired name is displayed press the  key to select it. The phone will now enter the 'Call Number', 'Modify Name Or Number' or 'Erase Name And Number' options sub-menu.

Call Number, Modify Name Or Number or Erase Name And Number Options

Once a Phone Book entry has been selected, it can be used to make a call to, modify or erase an entry.

Call Number

This option is used to call the selected Phone Book telephone number.

Simply press the  key when the phone displays the message **Call Number**.

Modify Name Or Number


This option is used to change the selected Phone Book entry.

The entries current telephone number and name will be presented, in turn, for modification. You can accept the current settings or modify as required.

The option will display the timed message **Modified XXX** and then return to the **Find Entry** menu item.

Erase Name And Number

This option is used to erase the selected Phone Book entry.

Simply press the  key when the phone displays the message **Erase Name And Number**. The option will display the timed message **Erased XXX** and then return to the **Find Entry** menu item.





OK Show My Phone Number



This option can be used to display your telephone number.

- ☞ You may need to enter your phone number into memory before you can display your number - see 'Enter My Phone Number'.

Enter My Phone Number

Use this option to store your phone number for future reference.

Add Entry

 Press and hold . You will be prompted to add an entry.

This option is used to add (store) entries to the Phone Book. You can choose to add the new entry to either the phone or SIM card memory locations.

Add To Phone Memory, Add To SIM Card Memory

Once you have selected the destination of the new entry, you will be asked to enter the telephone number, name and location number of the new entry.

The last telephone number dialled, will be presented by default, it can be used or discarded as required.

If the entered location is not valid, a timed message **Range YYY-ZZZ** will be displayed and the phone will return to the **Enter Location** menu item. If the chosen location is currently used by another entry, you will be asked for confirmation that the location can be overwritten.

If you do not supply a location number, the next available location will be used.

When the new entry has been entered, a timed message **Stored XXX** will be displayed and the phone will return to the **Add Entry** menu item.

Check Capacity

This option is used to check the number of free Phone Book entries in the phone or SIM card memory areas.

Check Phone Capacity, Check SIM Capacity

Once selected, a timed message **XX Unused Locations** displays the requested information. The phone will return to the **Check Capacity** menu item.

Prevent Access

This option enables you to prevent access to the Phone Book information.

To Phone Memory, To SIM Card Memory, To Phone & SIM Memory, No Memory Restrictions

The entries in the phone and SIM card can be restricted individually or together. To allow unrestricted access to all entries, this option can be disabled.

When you change the restrictions, you will be requested to enter the Security Code before the change is made.



Using The Messages Menu


What are Short Message Services?

The Short Message Service, or SMS, is a GSM network feature that allows you to receive two types of text messages:

Point to Point Messages

These are text messages that are sent specifically to your phone number.

When a point to point message is received, your phone:

- 1 Makes three short alert tones.
- 2 Displays the  (messages) icon.
- 3 Stores the message for later viewing, if there is space.


Cell Broadcast Messages

These are general messages, broadcast to a group of phones and can only be received when your phone is in standby mode.



These messages are broadcast in numbered 'channels' and, in general, each channel will tend to carry one particular type of information.

Typical cell broadcast channels could have information on local weather conditions, traffic reports or stock market prices.

Please contact your network operator for a list of available channels and the information they supply.

When your phone receives a cell broadcast message, it will attempt to scroll the message across the display. Your phone will be unable to display a message if you have entered a partial phone number, as the **Call?** prompt uses the same display area. To remove the **Call?** prompt press and hold the  key.

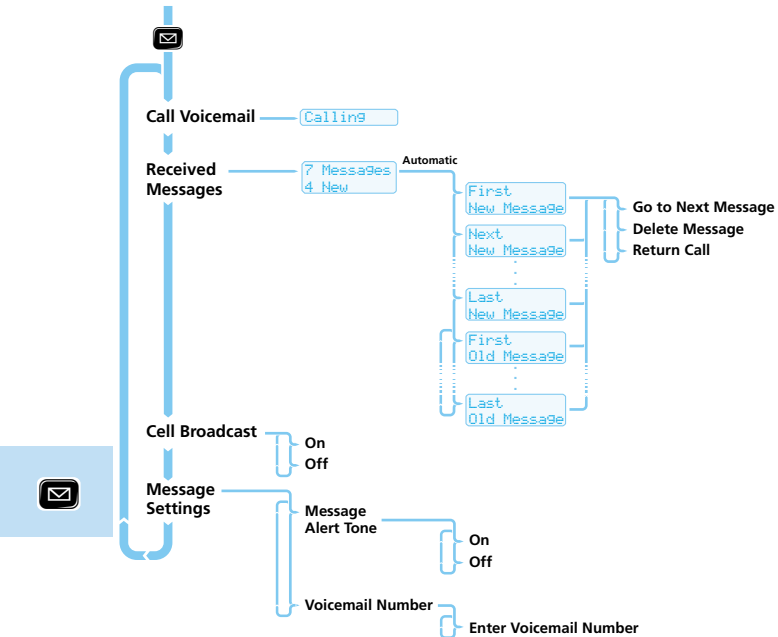
When the message has scrolled across the display, the beginning of the message will be shown until you either, remove it or a new message arrives.

To start or stop scrolling press the  key. The  key will restart scrolling from the beginning of the message.

To remove a displayed message, press the  key.



The Messages Menu Items



OK Call Voicemail

Once selected, this option will leave the Messages menu and automatically make a phone call to the current voicemail number. The display will show **Calling** and standard call operations can be performed.

The voicemail phone number can be entered by selecting the 'Voicemail Number' option in the 'Message Settings' sub-menu.


Menu Navigation






Received Messages

This option is used to view and manage any Point to Point messages, that have been sent to your phone number/SIM card.


When a Point to Point message is received, your phone will attempt to store it in your SIM card. If there is not enough space, the  icon will flash. One or more messages must be removed before the message can be stored.

Your Cellular Service Provider will transmit a message for a limited amount of time. If a memory location is not made available before the message is removed from the network, then you will not be able to receive or read it.

When selected, this option will display a message indicating the total number of messages and how many of these are new, if any. **No Messages** will be displayed if there are none and the phone will return to the 'Received Messages' menu item.

If there are messages, the new messages will be displayed first, followed by the old. Repeated presses of the  key will display the whole message, when it was sent and the phone number who sent it (if available).

Once you have read a new message it will automatically become old.

Press the  key, when viewing any message, to enter the 'Go to Next Message', 'Delete Message' and 'Return Call' sub-menu.

Go to Next Message

This option will display the next stored message.

If you are currently viewing the last old message, your phone will either display the first new message (if there is one) or the first old message.

Delete Message

This option will delete the currently viewed message.

Return Call

This option can be used to call the person who sent you the message, if their number has been included by the network, or a number that has been included in quotes "" in the message.





Cell Broadcast

This option is used to set the cell broadcast settings.

The option has two settings **On** or **Off**.

If you change the setting to **On**, you will be asked to enter the channel you wish to receive information from.

Please contact your Cellular Service Provider for a list of available channels and the information they provide.

Message Settings

OK Message Alert Tone

Your phone can notify you with an audible tone when a message is received. This option is used to switch the alert tones **On** or **Off**.

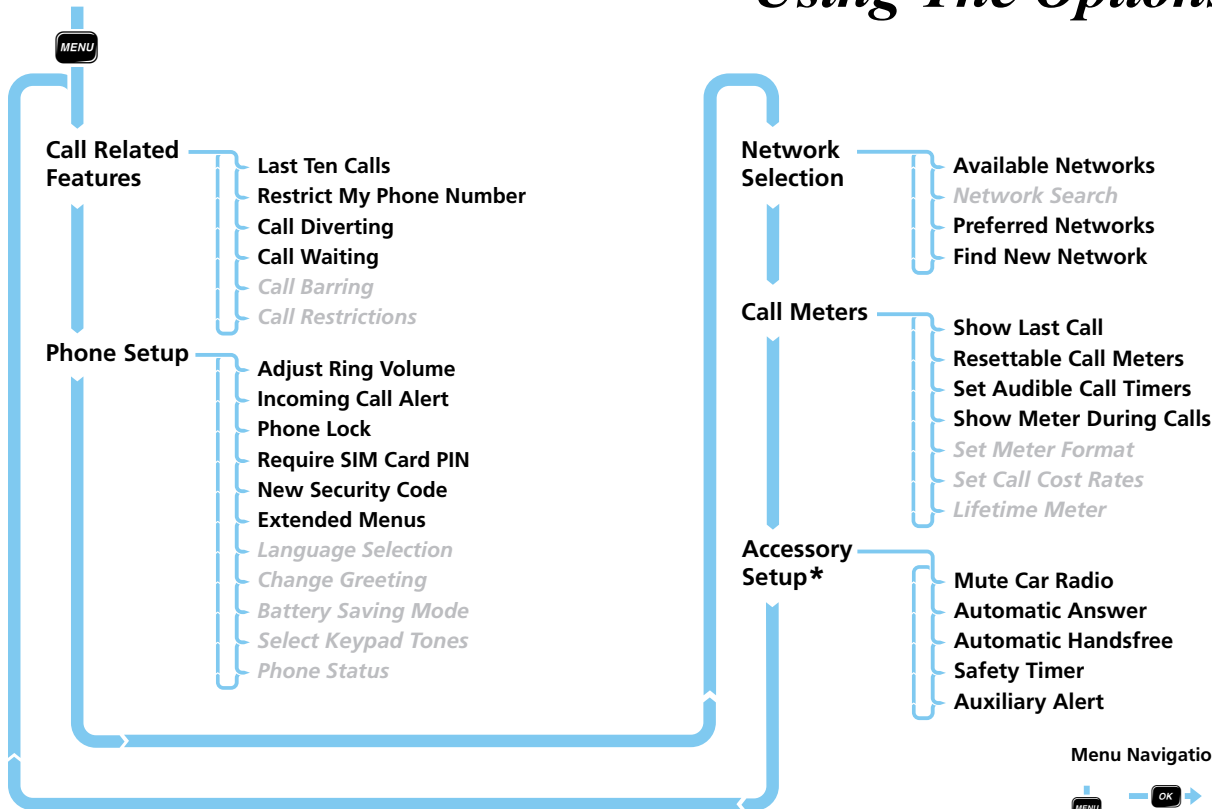
Voicemail Number

This option is used to enter a phone number which will be used by the 'Call Voicemail' option.

If there is already a Voicemail Number, this will be shown in the display. This can be used, modified or deleted as desired.



Using The Options Menu



Menu Navigation



Items shown in *italics* are available only when **Extended Menus** are enabled.


* The **Accessory Setup** section is not available in transportable mode.

OK *Short, Extended and Personalised Menus*

With **Personality**™ you can personalise the Options Menu by choosing which features you want quick access to. The features that are less frequently used can be stored out of sight.


The menu diagrams in this manual show the condition of the menu settings when you first receive your phone. Some features are in the Short Menu and are shown in **bold** type. Other features are in the Extended Menu and appear in shaded *italics* - these features do not appear when you first scroll through the Options Menu.

You can change which features appear in the Short and Extended Menu, and therefore personalise the Options Menu, to suit your requirements.

If you want to move a feature from the Short Menu to the Extended Menu (or from the Extended Menu to the Short Menu), **a long press of the  key** will offer you the following choices:

- Add the current feature to the Short Menu/Extended Menu.
- Leave the current feature in the Short/Extended Menu.

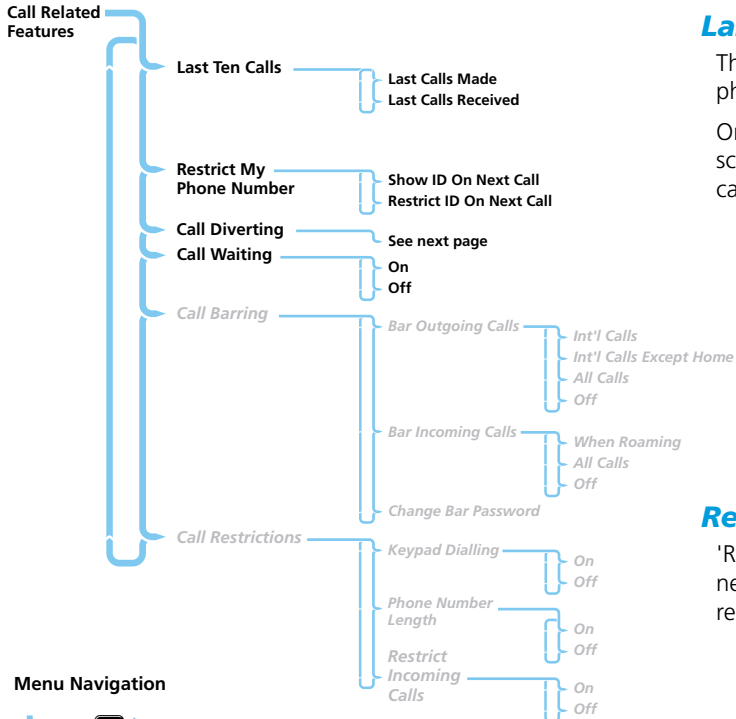
Once selected, the menu settings will change accordingly and your phone will return to the Options Menu.

 *The settings for some menu features cannot be changed.*

The 'Extended Menus' feature in the Options Menu allows you to scroll through all the features in the Short and Extended menus.

MENU

Call Related Features Menu Items



Menu Navigation



Items shown in *italics* are available only when **Extended Menus** are enabled.

Last Ten Calls

These options can be used to call the most recently used phone numbers.

Once an option has been selected, use the **←*** and **#→** keys to scroll through the list of phone numbers. Press the **OK** key to call the displayed number.

Last Calls Made

This option can be used to redial the phone number of any one of the last ten calls made.

Last Calls Received

This option can be used to redial the phone number of any one of the last ten calls received.

Only calls from phones that supply their own phone number will be stored in the calls received list.

Restrict My Phone Number

'Restrict My Phone Number' is a network feature. You will need to subscribe to one of the two Caller Line Identification restriction features with your Cellular Service Provider.

MENU



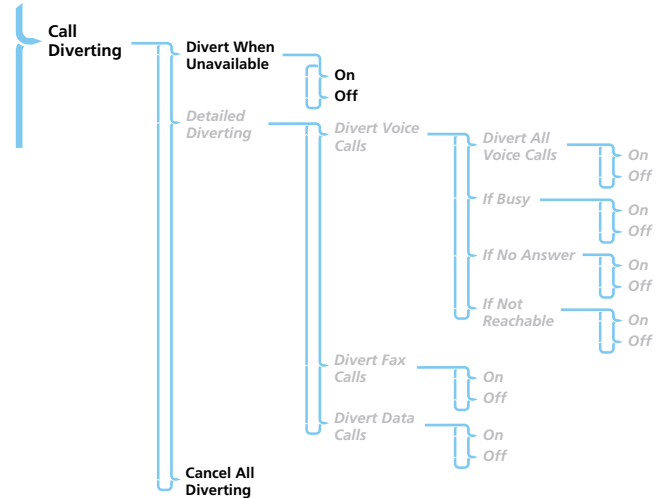
Show ID On Next Call

Your phone number is sent with the next attempted call, after this your phone number will not be sent until you re-select this option.

Restrict ID On Next Call

Your phone number will not be sent with the next attempted call, after this your phone number will be sent with calls until you re-select this option.

OK Call Diverting



Call diverting is a network feature. If your phone is unavailable, or you do not wish to receive calls, incoming calls can be diverted to other phone numbers.

This option can be used to:

- Divert *all* incoming call types to a *single* number, whenever your phone is unavailable, or,
- Divert calls to *different* numbers, depending upon the call type and the current status of your phone, or,
- Switch call diversion off.

OK selects an option, **C** will reject or cancel.

MENU



Divert When Unavailable

This option will enable you to divert *all* incoming calls to a *single* number, whenever your phone is unavailable.

After selecting this option, there will be a short delay while the phone asks the network for the current setting.

The option has two settings, **On** or **Off**.

If you change the setting to **On**, you will be asked to enter a diversion phone number by using the digit keys.

! *If you change this option to **On**, the detailed diversion settings for 'If Busy', 'If No Answer' and 'If Not Reachable' will be changed automatically.*

Detailed Diverting

These options will enable you to divert calls to *different* numbers, depending upon the call type and the current status of your phone.

Each of the following detailed diverting options operate in the same way.

After selecting an option, there will be a short delay while the phone asks the network for the current setting.

Each option has two settings, **On** or **Off**.

If you change the setting to **On**, you will be asked to enter a diversion phone number by using the digit keys.

! *If you change any of the settings for 'If Busy', 'If No Answer' and 'If Not Reachable', then the 'Divert When Unavailable' setting will be automatically changed to **Off**.*

Divert Voice Calls

Divert All Voice Calls

When selected, this option will *unconditionally* divert *all* incoming calls. You will have no opportunity to answer an incoming call.

If Busy

When selected, this option will divert incoming calls, if your phone is busy.

If No Answer

When selected, this option will divert incoming calls, if you do not answer the call.

If Not Reachable

When selected, this option will divert incoming calls, if your phone cannot be contacted by the network.

Divert Fax Calls, Divert Data Calls

When selected, these options will divert incoming 'Fax' and 'Data' calls.

Cancel All Diverting

This option will enable you to cancel the diversion of incoming calls.

After selecting this option, there will be a short delay while the phone asks the network to cancel all diversion settings.



OK Call Holding and Call Waiting

Your phone supports the GSM network options of Call Holding and Call Waiting. Using these options you can place a current phone call on hold and either, accept an incoming call or start a second call.

The Call Holding and Call Waiting options are selected by using the **MENU** and **OK** keys. By repeatedly pressing the **MENU** key, you will see the current hold/wait options. When you see the desired option, press the **OK** key to accept.

If this option is disabled, you will not be notified of waiting calls. The waiting caller will either receive the busy tone or be diverted by the 'Detailed Diverting - If Busy' option.

Call Holding and Call Waiting Scenarios

The precise function of the **MENU**, **OK** and **C** keys when used for call hold/wait options will depend upon the call status at the time.

The valid scenarios are as follows:

A call is active:

- OK** The active call ends and your phone is available for further calls as normal.
- C** As above.
- MENU** Offers the following options:
Hold Call?
 If accepted, the active call is held and **Call Holding** will be displayed.

A call is active and there is a call waiting:

- OK** The active call is held, the waiting call is connected and **2 Calls** will be displayed.
- C** The waiting call is rejected and the display will return to the normal call display.
- MENU** Offers the following option:
End Active Call?
 If selected, the active call ends. The waiting call now becomes a normal incoming call which can be received by pressing **OK**.
Reject Call Waiting?
 If selected, the waiting call is rejected and the display will return to the normal call display.

A call is held:

- OK** The held call is reconnected and **Connected** will be displayed.
- C** The held call ends and your phone is available for further calls as normal.
- MENU** Offers the following options:
Make New Call?
 If selected, you will be asked to enter the new number to call. The currently held call will remain on hold during the new call.
End Held Call?
 The held call ends and your phone is available for further calls as normal.



A call is held and there is a call waiting:

OK The waiting call is connected and **2 Calls** will be displayed.

C The waiting call is rejected.

MENU Offers the following options:

Reconnect Held Call?

If selected, the held call is reconnected and the waiting call is still waiting.

Reject Call Waiting?

If selected, the waiting call is rejected.

End Held Call?

If selected, the held call ends. The waiting call now becomes a normal incoming call which can be received by pressing **OK**.

A call is active and a call is held:

OK The active call ends and the held call is reconnected.

C As above.

MENU Offers the following options:

Switch Calls?

If selected, the active call is held and the previously held call is reconnected, **2 Calls Connected** will be displayed.

End Held Call?

If selected, the held call ends and the display will return to the normal call display.

A call is active, a call is held and there is a call waiting:

OK The waiting call is rejected and the display will return to the **2 Calls** display.

C As above.

MENU Offers the following options:

End Active Call?

If selected, the active call ends. The held call remains held and the waiting call is still waiting.

Switch Calls?

If selected, the active and held calls swap.

End Held Call?

If selected, the held call ends, the active call remains active and the waiting call still waits.

MENU



Call Holding and Call Waiting Messages

During Call Holding and/or Call Waiting operations, your phone may display one, or more, of the following messages:

Trying

A request to hold the active call, or swap the active call with a held call, has been made.

or

A request to reconnect the held call has been made.

Hold Failed

The request to hold a call has been unsuccessful.

Cannot Hold Second Call

A call is already on hold, you cannot place two calls on hold at the same time.

Reconnect Failed

The held call could not be made active again.

Busy Try Later

Your phone is still working on a previous command. Wait a short time before repeating the command.

OK Call Barring

Call barring is a network feature which can be used to selectively bar outgoing and incoming calls.

If you change the barring setting, you may be asked to enter your barring password. There will be a short delay while the phone notifies the network of the new setting. When the change has been made by the network, the phone will display a confirmation message.

The *initial* password will be supplied to you by your Cellular Service Provider when you subscribe to this service.

Bar Outgoing Calls

After selecting this option, there will be a short delay while the phone asks the network for the current setting.

Barring Int'l Calls

When selected, this option will bar outgoing international calls.

Barring Int'l Calls Except to Home

When selected, this option will bar outgoing international calls, except those to your home country.

All Calls

When selected, this option will bar *all* outgoing calls, except emergency calls.

Off

When selected, this option will disable all call barring for outgoing calls.






Bar Incoming Calls

After selecting this option, there will be a short delay while the phone asks the network for the current setting.

When Roaming

When selected, this option will bar incoming calls when you are roaming.

 *Roaming, indicated by the ▲ symbol in the display, is when you are registered on a network other than your home network.*

You may wish to select this option, as some Cellular Service Providers charge an additional fee for receiving calls when you are roaming.

All Calls

When selected, this option will bar *all* incoming calls.

Off

When selected, this option will disable all call barring for incoming calls.

Change Bar. Password

This option can be used to change the call barring password.

After selecting this option, you will be asked to enter the current password.

You will then be asked to enter, and then re-enter, your new, **4 digit**, barring password. When the change has been made by the network, the phone will display a confirmation message.

OK Call Restrictions

These options can be used to limit outgoing and incoming calls. They are phone based options, you do not need to subscribe to call barring to use them.

Keypad Dialling

This option can be used to restrict your phone to dialling numbers stored in your phone and SIM card memory. You will not be able to use the digit keys to make a call.

The option has two settings, **On** or **Off**.

Phone Number Length

This option can be used to limit the number of digits allowed in a phone number. By setting this limit, you may be able to restrict access to international or long distance calls.

The option has two settings, **On** or **Off**.

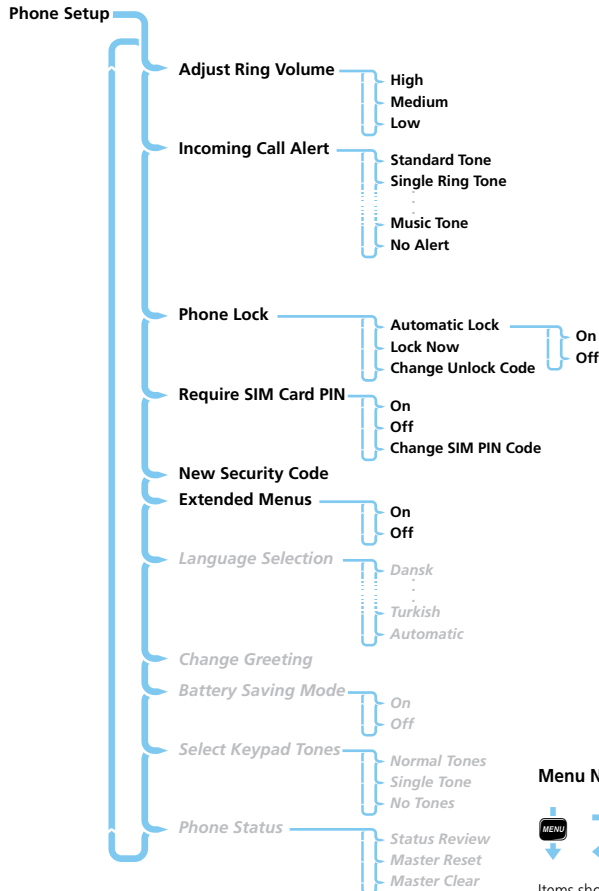
If you change the setting to **On**, you will be asked to enter the maximum phone number length by using the digit keys.

Restrict Incoming Calls

This option can be used to stop your phone from receiving incoming calls. It is a phone based option, you do not need to subscribe to call barring to use this option.

The option has two settings, **On** or **Off**.

Phone Setup Menu Items



Adjust Ring Volume

This option is used to set the incoming call ring tone volume.

The option has three settings, **high**, **medium** or **low**.

OK Incoming Call Alert

This option sets the way your phone alerts you to an incoming call.

Standard Tone

Your phone makes a standard ringing tone.

Single Ring Tone,... .., Music Tone

When selected, your phone will produce one of these alternative alert tones.

If you select the Single Ring Tone option, the phone will only ring once when a call is received.

No Alert

Your phone will alert you to an incoming call by displaying a message.

Menu Navigation



Items shown in *italics* are available only when **Extended Menus** are enabled.



OK Phone Lock

This option is used to set, and change, the unlock code.

The unlock code can be set to protect your phone from unauthorised use. It can be set to automatically lock your phone each time it is switched on.

The unlock code is a four digit number which is set at manufacture to **1234**. This can be changed at any time by using the 'change unlock code' option.

Automatic Lock

This option can be used to automatically lock your phone each time it is switched on.

The option has two settings, **On** or **Off**.

Lock Now

This option can be used to immediately lock your phone. Once selected, your phone will be unusable until the unlock code is entered.

Change Unlock Code

This option is used to change the unlock code.

After selecting this option, you will be asked to enter the current security code before you can proceed.


You can now enter a four digit code to replace the old code.

Require SIM Card PIN

This option is used to set, and change, the PIN code.

The PIN code can be set to protect your SIM card from unauthorised use. If set to **On**, access to your SIM card will be restricted each time it is inserted or the phone is turned on.

The option has two settings, **On** or **Off**.


 *If the SIM card does not support PIN code disabling, these items will not appear.*

OK Change SIM PIN Code

This option is used to change the SIM card PIN code.

The 'Require SIM Card PIN' option must be set to **On** and you must enter the old PIN code before you can proceed.

You will be asked to enter a new, four to eight digit code to replace the old PIN code. The new PIN code must be entered again as confirmation.

 *If the PIN number is entered incorrectly three times in a row, your SIM card will automatically lock-up and the **Blocked** message will be displayed.*

*See 'Unlocking Your SIM Card' in the **Using Your Phone** section for details on unblocking your phone.*




OK **New Security Code**

The security code is used to control access to security and other options within the menus.



This option is used to change the security code, which is set at manufacture to **000000**.

Once selected, you will be asked to enter the current security code before you can proceed.

You will then be asked to enter a new, six digit code to replace the old security code.

 *In order to safeguard your phone, you should change your security code from the factory setting as soon as possible.*

OK **Extended Menus**

 Press and hold . Extended Menus will be temporarily activated until you exit the Options menu.

This option is used to switch the extended menus on or off.

If the extended menu option is switched off, you will not be able to access any of the extended features.

The option has two settings, **On** or **Off**.

OK **Language Selection**

This option is used to change the language for display messages.

The option has multiple settings.

When you select a language, all further display prompts and help messages will be in the selected language.

OK **Change Greeting**

This option is used to change the message displayed when you switch on your phone.

Once selected, you will be able to enter a new greeting of up to 24 characters. The characters are entered in the same way as names, see 'How to Enter a Name' in the **Using the Phone Book Menu** section for more information.

The new greeting will be displayed when your phone is next switched on.

Battery Saving Mode

This option can help you to conserve battery power while in transportable mode. Also known as DTX (Discontinuous Transmission), this feature will cause your phone to operate at reduced power when you are not talking.

The option has two settings, **On** or **Off**.

OK **Select Keypad Tones**

This option allows you to change or disable tones you hear when you press a key.


The option has three settings, **Normal Tones**, **Single Tone** or **No Tones**.



Phone Status

Status Review

This option can be used to view the current setting of menu options.

When selected, your phone will display a list of menu items which have been changed from the default setting. Press the  key to view the next item.

Master Reset

 *This option should be used with caution.*

This option is used to restore certain phone options to their original settings.

When selected, you will be asked to enter the security code. Once entered, the master reset option will perform the following operations:

- Cancel Automatic Answer, Audible Call Timers, Call Meter During Calls, Battery Save (DTX), Auxiliary Alert, Automatic Handsfree, Automatic Lock, Call Restrictions and Cell Broadcast.
- Return Language Selection to Original.
- Restore Keypad Tones, Ringer Tones and Volume Level to Medium.

Master Clear

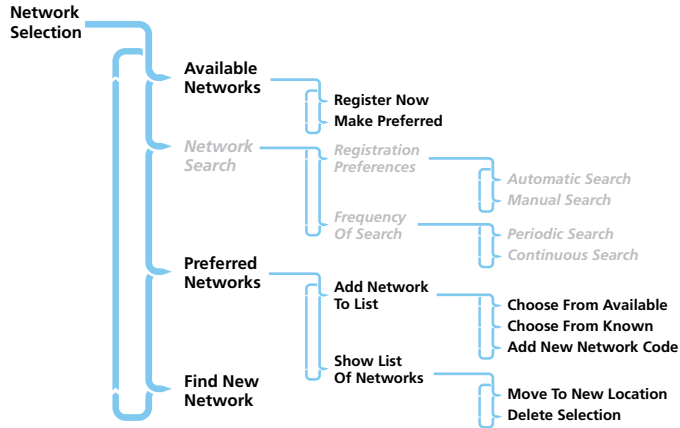
 *This option should be used with extreme caution.*

This option is used to restore certain phone options to their original settings.

When selected, you will be asked to enter the security code. Once entered, the master clear option will perform the same operations as 'Master Reset', plus the following operations:

- Clear the Phone Book Entries in the Phone, Last Number Called, Home Call Cost Rates and Roam Call Cost Rates.
- Reset the Resettable Call Timers and Meters.

Network Selection Menu Items



Menu Navigation



Items shown in *italics* are available only when **Extended Menus** are enabled.

The network list is sorted in the following order:

- The Home network.
- Networks from a preferred list.
- A random list of other networks found above a certain signal strength.
- All remaining networks in descending order of signal strength. Any forbidden networks, stored in the SIM by your Cellular Service Provider, will not be included in the sorted list.

Available Networks

When selected, this option will scan to see which networks are operating in your current location. When the scan is complete, press the **MENU** key to scroll through the list. When you see a network you wish to register with or store in your preferred list, press the **OK** key. You will now enter the 'Register Now' and 'Make Preferred' sub-menu.

Register Now

Once selected, your phone will try to register with the selected network. If the registration fails, your phone will try to register in the normal way.

Make Preferred

Once selected, you will be asked where the selected network is to be located in the preferred list.

Network Selection

In order for the phone to make and receive phone calls, it must register with one of the available networks.

Your phone automatically searches for the last network used. If, for any reason, this network is unavailable, your phone will attempt to register with a new network.

When your phone needs to register with a new network, it will generate a sorted list of networks.



Network Search

These options determine how often your phone tries to register with a network and how the attempt is made.

Registration Preferences

This option determines how the phone tries to register with a network.

The option has two settings, **Automatic Search** or **Manual Search**.

Automatic Selection Mode

In the automatic mode, the phone will try to register with the first network in the sorted list. If this is successful, your phone will display the network name and then enter the standby mode.

If registration is unsuccessful with one network in the list, your phone will try the next listed network. If your phone fails to register with any of the listed networks, it will start at the beginning of the list after a preset period. The preset period is determined by the 'Frequency Of Search' option.

Manual Search Mode

In the manual mode, the phone will present you with the sorted list of networks. Use the **←***, **#>** and **OK** keys to select one network from the list. Your phone will try to register with the selected network. If this is successful, the phone will display the network name and then enter the standby mode.

If registration is unsuccessful, your phone will present the list again after a preset period. The preset period is determined by the 'Frequency Of Search' option.

Frequency Of Search

This option is used to determine how long your phone waits before attempting to re-register after a registration attempt has failed.

The option has two settings, **Periodic Search** or **Continuous Search**.

When set to periodic, your phone will wait a set time before attempting to register.

The continuous setting will cause your phone to try again immediately.

! *The continuous setting will cause heavy battery usage and should be avoided if possible.*



OK Preferred Networks

Add Network To List

This option enables you to add networks to your preferred list.

When selected, the 'Choose From Available' option will scan to see which networks are operating in your current location. When the scan is complete, press the **MENU** key to scroll through the list. When you see a network you wish to store in your preferred list, press the **OK** key. You will be asked where the selected network is to be located in the preferred list.

The 'Choose From Known' option will, when selected, present you with a preset list of networks. Press the **MENU** key to scroll through the list. When you see a network you wish to store in your preferred list, press the **OK** key. You will be asked where the selected network is to be located in the preferred list.

Select the 'Add New Network Code' option to enter network codes directly. Once entered, you will be asked where the network is to be located in the preferred list.

Show List Of Networks

This option is used to display the networks you have stored in your preferred list. In addition, pressing the **OK** key will select the currently displayed entry and enter a move/delete sub-menu.

When 'Move to New Location' is selected you will be asked to enter a new location for the selected network.

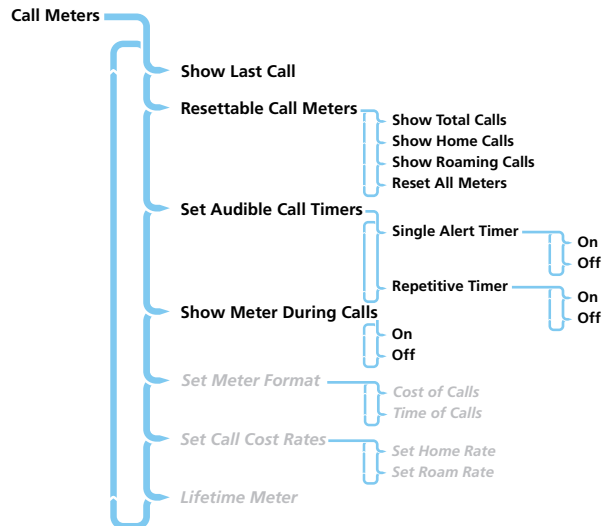
When selected, 'Delete Selection' will remove the selected network from the preferred list.

Find New Network

When selected, the phone will try to register with a network in the normal manner, with one exception. When the registration attempt is made, your current network will be excluded from the list of those available. If the attempt fails, your phone will then try to re-register with the previous network.

MENU

Call Meters Menu Items



Menu Navigation



Items shown in *italics* are available only when **Extended Menus** are enabled.

Call Metering

Your phone has an internal metering system which can be used to provide you with individual and total call times or costs.

The default setting for these meters is to show call time.

If you wish to display the cost of calls, you must set the 'Set Call Cost Rates' option. This setting is then used to calculate the call costs. There are two call cost rates, home and roam, these are both required to calculate accurate costs.

The meter can be displayed during a phone call and audible tones can be generated to indicate the passage of call time.

Depending on the model, your phone will monitor either all calls or only outgoing calls.

Show Last Call

This option is used to display how long, or how much, the last call was.

Once selected, the display will show **Time** or **Cost** and the appropriate value.

The 'Set Meter Format' option is used to determine which call value is shown. The rates in the 'Set Call Cost Rates' options must be set if you wish to display the cost of a call.

Resetable Call Meters

The resettable call meters options are used to provide information on the combined length, or approximate cost, of calls made since the last meter reset. These meters can not be reset individually, all three will be reset by the 'Reset All Meters' option.



Show Total Calls

This option is used to display the total call time, or cost, since the last meter reset. The total is a combination of home calls and calls made while roaming.

Once selected, the display will show **Time** or **Cost** and the appropriate value.

The 'Set Meter Format' option is used to determine which call value is shown. The rates in the 'Set Call Cost Rates' options must be set if you wish to display the cost of a call.

Show Home Calls

This option is used to display the total call time, or cost, on your home network, since the last meter reset.

Once selected, the display will show **Time** or **Cost** and the appropriate value.

The 'Set Meter Format' option is used to determine which call value is shown. The rates in the 'Set Call Cost Rates' options must be set if you wish to display the cost of a call.

Show Roaming Calls

This option is used to display the total call time, or cost, on other networks, since the last meter reset.

Once selected, the display will show **Time** or **Cost** and the appropriate value.

The 'Set Meter Format' option is used to determine which call value is shown. The rates in the 'Set Call Cost Rates' options must be set if you wish to display the cost of a call.

Reset All Meters

This option is used to reset the resettable call meters.

OK Set Audible Call Timers

Your phone provides two programmable audible call timers:

- The 'Single Alert Timer' will sound a beep just once during a call, after a preset time has elapsed.
- The 'Repetitive Timer' will sound regular beeps during a call, at preset intervals.

In both cases, the timers will sound their beeps ten seconds before the end of the programmed time.

Single Alert Timer

This option will sound a beep just once during a call, after a preset time has elapsed.

The option has two settings, **On** or **Off**.

If you change the setting to **On**, you will be asked to enter a new preset time by using the digit keys. The preset time should be between 011 and 999 seconds.

Repetitive Timer

This option will sound regular beeps during a call, at preset intervals.

The option has two settings, **On** or **Off**.

If you change the setting to **On**, you will be asked to enter a new preset interval by using the digit keys. The preset interval should be between 011 and 999 seconds.

MENU



OK Show Meter During Calls

This option allows you to display the current call meter, during a call.

The option has two settings, **On** or **Off**.

The 'Set Meter Format' option is used to determine which call value is shown. The rates in the 'Set Call Cost Rates' options must be set if you wish to display the cost of a call.

OK Set Meter Format

This option allows you to select the way call meters are displayed.

The option has two settings, **Cost of Calls** or **Time of Calls**.

If you change the setting to **Cost of Calls**, all further meter displays will show call costs. The rates in the 'Set Call Cost Rates' options must be set if you wish to display the cost of a call.

If you change the setting to **Time of Calls**, all further meter displays will show call times.

OK Set Call Cost Rates

The rates used by your phone's call meters are programmed using this option. The rates that you enter can either be currency per minute or charge units per minute. The call cost rates for home and roaming calls should be obtained from your Cellular Service Provider.

- 📞 *Call Costs displayed in your phone are approximate. Contact your Cellular Service Provider for exact charges.*

Set Home Rate

This option is used to enter the cost of a call, per minute, on your home network.

Once selected, you will be asked to enter the rate. You should enter either the currency cost per minute or charge units per minute.

When the rate has been entered, your phone will display a confirmation message.

Set Roam Rate

This option is used to enter the cost of a call, per minute, when roaming.

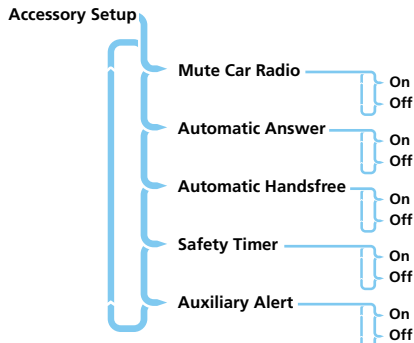
Once selected, you will be asked to enter the rate. You should enter either the currency cost per minute or charge units per minute.

Lifetime Meter

This option is used to display the total time, or cost, of *all* calls made on your phone.

This meter *can not* be reset, the 'Reset All Meters', 'Master Reset' or 'Master Clear' options have no effect.

Accessory Setup Menu Items



Menu Navigation



MENU

This section is not available in transportable mode.

OK Mute Car Radio

This option can be used to mute your car radio when you make or receive a call.

This option has two settings, **On** or **Off**.

This option will have no effect if your car radio does not have a mute feature.

This option and the 'Auxiliary Alert' option are mutually exclusive. Only one of the two can be on at any time.

Automatic Answer

This option allows your phone to automatically answer an incoming call after two rings.

This option has two settings, **On** or **Off**.

If this option is **On**, we recommend that the 'Incoming Call Alert' option be set to one of the audible tones.

Automatic Handsfree

This option is used in conjunction with the 'Automatic Answer' option to transfer call conversation to external microphones and speakers.

This option has two settings, **On** or **Off**.




Safety Timer

This option can be used to keep the phone on for a set period after the vehicle ignition has been turned off. This prevents the vehicle's battery from becoming drained and saves you from having to re-enter PIN and Unlock codes after every short stop.

As standard the 'Safety Timer' is set to 60 minutes. Once selected, this option can be adjusted to any value between zero and 999 minutes. When set to zero, this option is effectively switched off.

Auxiliary Alert

This option allows your phone to alert you of an incoming call by flashing your vehicle lights, or by sounding the horn.

 *Some local regulations prevent the use of this option and, accordingly, this option may not be present on your phone.*

This option and the 'Mute Car Radio' option are mutually exclusive. Only one of the two can be on at any time.



A small, dark, rounded rectangular button with the word "MENU" in white, uppercase letters.

The following accessories have been designed to work with your cellular phone. Additional accessories may be available and are packaged separately. Please refer to your local service provider or retail outlet for more information.

Battery 2.2 Ah (SNN4139)

The Battery is for use with the carrying cassette in transportable mode . It provides up to 12 hours standby time and up to 90 minutes talk time. The battery will take approximately 9 hours to fully recharge.

Rapid Charger (SPN4064 - Euro/ SPN4063 - UK)

The Rapid Charger connects to a spare battery and allows you to charge it in approximately four hours.

Power Supply (CCPN4013 - Euro/ CCPN4000 - UK)

When in transportable mode, the Power Supply connects directly to the battery in the carrying cassette and allows you to use the phone at the same time as charging the battery. Depending on usage, the battery will take around four hours to charge.

Cigarette Lighter Adaptor (CCLN4208)

The Cigarette Lighter Adaptor supplies power to the carrying cassette from the vehicle's cigarette lighter socket, saving the battery for portable use.

Quick Release Mounting Bracket (CCLN4128)

The Quick Release Mounting Bracket holds the transceiver when it is mounted in the vehicle.

Replacement Handset (SCN2628)

A Replacement Handset is available should the existing one become damaged or stolen.

Replacement Hang Up Cup With Card Reader (SLN3194)

For use in a vehicle a Hang Up Cup with integral Card Reader is available.

Carry Strap (SLN7340)

A Carry Strap is available so that your hands are free when carrying the phone in the carrying cassette.










Using the Transportable

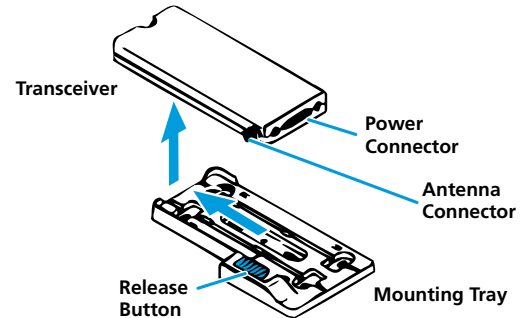
 This section is only applicable if you have purchased your phone with the optional transportable kit or as a transportable.

Removal from the Vehicle


Removing the Handset

Always start by making sure that the phone is switched off. Lift the handset from its mount. Press the lock on the coil cord plug while pulling out the cord. You are now ready to remove the transceiver.

Removing the Transceiver



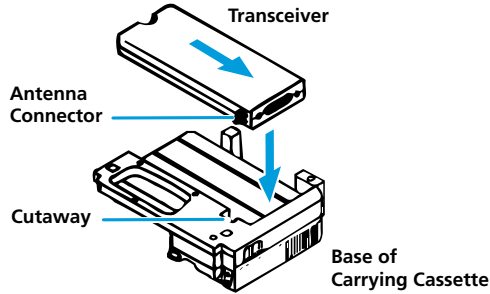
Disconnect the power cable and the antenna cable. Press the release button while sliding the transceiver toward the back wall of the mounting tray. Lift the transceiver from the tray.

 If you have the U-mount tray, remove the mounting screws from the bracket before lifting the transceiver.

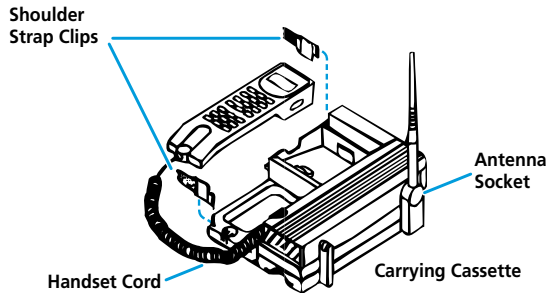


Insertion into the Carrying Cassette

Lower the transceiver into the base of the carrying cassette. The antenna connector will fit into the cutaway portion. Slide the transceiver forward until a click is heard indicating that the unit is locked into place.



Turn over the carrying cassette and connect the handset coil cord to the handset connector. Place the handset in the hang up cup. Mount the antenna on the rotating antenna socket.

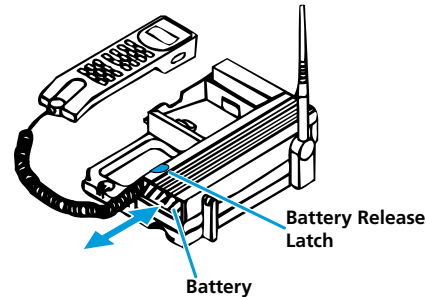


Attach the shoulder strap by sliding the clips into the slots in the carrying cassette. The clips will lock into place. To remove the shoulder strap, press the tabs and lift the clips.

To Insert the Battery

Slide the battery into the compartment until it locks into place. Arrows on the battery indicate the end to insert first.

The + sign on the battery should be facing up.



To Remove the Battery

Pull up the battery release latch. The battery will automatically slide out for easy removal.



Battery Charging

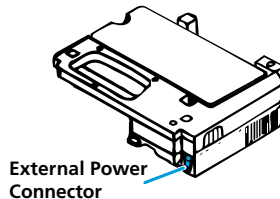
The carrying cassette uses a rechargeable lead-acid battery. The life of a battery can be greatly affected by the charging method as well as the use.

To maximise battery life:

- Charge new batteries before use.
- Avoid discharging the battery completely.
- Charge after extensive use.
- Turn the phone off while charging.
- Charge at or near room temperature.
- Avoid overcharging.
- Store batteries fully charged.

Overnight Charger

Connect the charger to the external power connector on the carrying cassette. Plug the charger into the wall outlet.



The Overnight Charger will take approximately 9 hours to charge a completely discharged battery with the phone switched off.

Spare Battery Charger

Remove the battery from the carrying cassette. Connect the cable to the battery contacts. Plug the charger into the wall outlet.

The Spare Battery Charger will take approximately 4 hours to charge a completely discharged battery.

Cigarette Lighter Adaptor

The Cigarette Lighter Adaptor supplies power to the carrying cassette from the vehicle's electrical system. For this reason it is advisable to use the adaptor only when the engine is running.

Connect the cable to the external power connector on the carrying cassette. Plug the Adaptor into the cigarette lighter.

Depending on your vehicle's electrical system and usage of the phone, your battery may charge or discharge while using this adaptor.

The adaptor has a 10 Amp fuse which you may replace yourself, if necessary.

Mains Operation - Rapid Charging

For fixed applications an alternative power source to the battery is the main power supply. Connect the power supply to the external power connector on the carrying cassette. Plug the power supply into the wall outlet.

You may either remove the battery or leave it in. If you leave it in, a completely discharged battery will be fully charged in approximately four hours.



Operation in the Carrying Cassette Use Inside a Vehicle

Keypad and Display Lighting

To conserve battery power, the keypad and display lighting will turn off after a few seconds. Pressing any key will turn the lighting back on.

Hands Free Operation


Hands Free operation may also be used when the phone is placed in the carrying cassette. The operation is carried out as described elsewhere in this user guide. When operating in Hands Free mode, you will hear the call through the loudspeaker built into the Carrying Cassette. Direct your conversation towards the microphone built into the handle.

Low Battery Indicator

The Battery Level Meter on the display indicates the level of the battery.

When the battery needs to be charged a warning tone is heard and the display shows **Low Battery**.

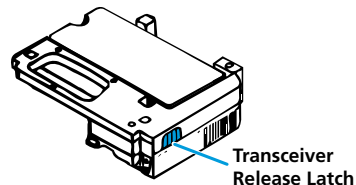
When the battery strength drops below the lowest level for normal function, the telephone is switched off automatically.

 *If powered via the Cigarette Lighter Adapter, the display will not show the battery strength indicator, since the transportable is powered from the vehicle's battery.*



With a Car Kit Installation

If you have a car kit, remove the handset and transceiver from the carrying cassette and reinstall in the vehicle. The transceiver is released from the carrying cassette using the release latch.



Without a Car Kit Installation

Secure the Carrying Cassette by firmly attaching the seat belt through the handle. The cigarette lighter adaptor will supply power from the vehicle's electrical system, saving the carrying cassette battery for use away from the vehicle.

To provide better reception during in-vehicle use, remove the carrying cassette antenna and connect the cable from an external antenna to the antenna connector.

A

Accessory setup menu	50
Add entry	25
Add to phone memory	25
Add to SIM card memory	25
Adjust ring volume	40
Automatic answer	50
Automatic handsfree	50
Automatic lock	41
Automatic redial	13
Auxiliary alert	51
Available networks	44

B

Bar incoming calls	39
Bar outgoing calls	38
Battery charge level symbol	10
Battery saving mode	42
Buttons	
Volume	9

C

Call barring	38
Call cost rates	49
Call diverting	34
Call holding	36
Call metering	47
Call meters menu	47

Call number	25
Call related features menu	33
Call restrictions	39
Call timers	48
Call waiting	36
Calling a number	13
Calling an embedded number	29
Cancel all diverting	35
Capacity	
Checking	25
Carrying cassette	
Battery charging	55
Cigarette lighter adaptor	55
Insertion and removal of battery	54
Insertion of transceiver	54
Mains operation	55
Overnight charger	55
Removal from the vehicle	53
Spare battery charger	55
Use inside a vehicle	56
Cell broadcast	30
Cell broadcast messages	27
Change bar. password	39
Change greeting	42
Change SIM PIN code	41
Change unlock code	41
Characters	22
Check capacity	25

D

Delete	
Entries from phone book	24
Detailed diverting	35
Dialling a phone book entry	14
Display	10
Lighting, carrying cassette	56
Display characters	22
Divert when unavailable	35
DTX	42

E

Embedded messages	
Returning calls	29
Emergency calls	15
Ending a phone call	15
Enter my phone number	25
Entering names	22
Erase	
Name and number	24
Extended menus	32, 42

F

Find entry by location	24
Find entry by name	23
Find new network	46

H

Handsfree	
Carrying cassette	56
Handsfree calls	16
Home service symbol	10

I

In use symbol	10
Incoming call alert	40
International phone calls	14

K

Keypad	
Lighting, carrying cassette	56
Keypad tones	42
Keys	9

L

Language selection	42
Last ten calls made/received	33
Lifetime meter	49
Lock now	41
Low Battery Indicator	56

M

Making a phone call	13
Master clear	43
Master reset	43
Menu navigation	19
Menus	
Accessory setup menu	50
Call meters menu	47
Call related features menu	33
Extended menu	32
Messages menu	27
Network selection menu	44
Personalised menus	32
Phone Book menu	21
Phone setup menu	40
Short menu	32
Message settings	30
Messages	27
Call holding and call waiting messages	38
Calling an embedded number	29
Messages menu	27
Modify	
Name	24
Number	24
Moving around the menus	19
Mute car radio	50

N

Names	
Entering	22
Network search	45
Network selection menu	44
Networks	
Automatic selection	45
Finding new networks	46
Manual search	45
New security code	42
No service symbol	10

O

One touch dialling	14
--------------------------	----



P

Pauses	
Inserting into phone numbers	14
Personalised menus	32
Phone book	21
Add entry	25
Call number	24
Capacity	21
Deleting\erasing entries	24
Modify name or number	24
Preventing access to	25
Storing numbers	16
<i>See also</i> Add entry	
Phone Book menu	21
Phone call	
Automatic redial	13
Dialling a phone book entry	14
Emergency calls	15
Ending	15
International calls	14
Making	13
One touch dialling	14
Receiving	15
Phone lock	41
Phone services	18
Phone setup menu	40

Phone status	43
PIN code	
Entering	12
Setting and changing	41
Point to point messages	27
Preferred networks	46
Prevent access	25

R

Rapid Charging	55
Received messages	29
Receiving a phone call	15
Redialling the last number called	14
Remote card reader	11
Require SIM card PIN	41
Resettable call meters	47
Restrict	
Incoming calls	39
Keypad dialling	39
Phone number length	39
Return call	29
Ring tones	40
Roam symbol	10

S

Safety information	5
Safety timer	51
Security code	
Changing	42
Select keypad tones	42
Set audible call timers	48
Set call cost rates	49
Set meter format	49
Short, extended and personalised menus	32
Short menu	32
Short message service symbol	10
Short Message Services (SMS)	27
Show last call	47
Show meter during calls	49
Show my phone number	25
Signal strength symbol	10
SIM card	
Insertion	11
Unlocking	12
SIM card PIN code	12, 41
Status review	43
Storing phone numbers	16
<i>See also</i> Add entry	
Switching the phone on and off	12
Symbols	10

T

Timers	48
Tones	
Selecting keypad tones	42
Setting alert tones	40
Transportable mode	
Using the phone	53

U

Unlocking your SIM card	12
Understanding this manual	4
Unlock code	
Entering	12
Setting and changing	41

V

Voicemail number	30
Voicemail symbol	10
Volume	
Adjusting the earpiece volume	9
Adjusting the keypad tone volume	9
Adjusting the ring volume	40
Buttons	9