# Operating Instructions Digital Cellular Telephone 

## EB-G520 Main Kit

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## Before You Start

Thank you for purchasing this Panasonic G520 digital cellular telephone. This telephone is designed to operate on the Global System for Mobile Communications (GSM).
These operating instructions detail use of the equipment contained in the Main Kit.
Some services are network dependent or may only be available on a subscription basis. Some functions are SIM dependent. For more information contact your Service Provider.

## Symbols Used

Shows that you should press the following key(s).
シText $\leqslant$ Shows that the display text will be flashing.


Shows that the information is a Quick Tip.

## Safety Information

4
This equipment is intended for use when supplied with power from the built-in charger or Dual Charger (EB-CR520) through the AC Adaptor (EB-CA600). Other usage will invalidate any approval given to this apparatus and may be dangerous. The use of approved accessories is recommended to ensure optimum performance and avoid damage to your telephone.

4Switch off your cellular telephone when in an aircraft. The use of cellular telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the cellular network and may be illegal. Failure to observe this instruction may lead to the suspension or denial of cellular telephone services to the offender, or legal action or both.

You are advised not to use the equipment at a refuelling point. You are reminded of the need to observe restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress. Never expose the battery pack to extreme temperatures (in excess of $60^{\circ} \mathrm{C}$ ) or charge the battery pack for much longer than recommended.


You MUST exercise proper control of your vehicle at all times. Do not use a hand held telephone or microphone while you are driving. Find a safe place to stop first. Do not speak into a hands free microphone if it will take your mind off the road. Acquaint yourself thoroughly with restrictions concerning the use of cellular telephones within the country you are driving and observe them at all times.
凸 Care must be taken when using the telephone in close proximity to personal medical devices, such as pacemakers and hearing aids.

## Fitting/Removing the SIM

The SIM is fitted into a holder at the back of the telephone underneath the battery.

## Fitting the SIM



## Removing the SIM

To remove the SIM follow the above steps in reverse.

## Fitting/Removing the Battery

Fit a fully charged battery pack. If the battery pack is not fully charged then it must be charged as shown in "Charging the Battery" - see page 26.

## Fitting the Battery



Removing the Battery


## Your Telephone

## Location of Controls



Navigation key - pressing up/down scrolls through options in the main area of the display or adjusts the volume. Pressing left/right scrolls through options in the option area of the display (see Display below)
© Select key - selects an option in the option area of the display (see Display below)
© - accesses Phonebook or switches character types

-     - makes a call or recalls recently dialled telephone numbers
(C) - clears the last digit entered, clears all digits when pressed and held or returns to the previous display
( 0 - ends a call or switches the telephone on/off when pressed and held
Digit keys 0 to 9 , * and \# the \# key will switch on and off vibration alert


## Display



Location area - indicates menu number, location number, or alpha mode

Option area - shows options that can be selected by © key
$\Delta$ lights when you are registered to a non-home network - roaming
$\hookrightarrow$ lights when call divert is enabled
※ lights when vibration alert is enabled
$\chi$ lights when all tones or ring volume is off
flashes when an unread message is stored or lights when message area is full

- lights when phone lock is enabled
$\boldsymbol{T}$ indicates that it is possible to make emergency calls . \|III Indicates received signal strength - : weak signal, illll strong signal
Indicates the battery level - full, in low battery
+ pressed

Following some operations the display will automatically clear after three seconds or after pressing any key.

## Basic Operation

## Power on/off



兆 $\square$ and hold to switch power on A greeting will be displayed.
and hold to switch power off

## Making a Call

Make sure that the telephone is switched on and the signal strength meter is displayed.


1 area code and telephone number


Emergency Calls
To make an emergency call the antenna symbol ( $\bar{\Gamma}$ ) must be present.
(1) 1 (2ace or press (c) when "SOS" is displayed in the option area of the display

## International Dialling



Using the Automatic International Access Code＂+ ＂you will be able to dial international numbers without having to know the code for the international exchange．
1 为
（ + and hold until a＂+ ＂appears
2 country code or to scroll through the abbreviated international names
3 area code and telephone number
4 为


| Country： |  | T．．．II |
| :---: | :---: | :---: |
| UKK |  |  |
|  | ＋ | DK |

NOTE：Many countries include an initial＂ 0 ＂in the area code．This should，in most cases，be left out when dialling international numbers．If you have difficulties making international calls，contact your Service Provider．

## Ending a Call

## 娍

## Answering a Call

To receive a call the telephone must be switched on and the signal strength meter must be displayed．


Fin any key except $\times$ or $\odot$


## Calling Line Identification

This feature allows you to identify incoming calls and accept or reject them. The caller's telephone number, and name if stored in Phonebook, will be displayed.
NOTE: Call Line Identification may not always be available.

## Adjusting Volume



## Earpiece Volume

Four levels of earpiece volume are available.
During a call: $\bigcirc$ to decrease $\bigcirc$ to increase

## Ring and Key Volume

See "Ring Volume" page 25 and "Key Volume" page 25.

## Vibration Alert



When vibration alert is switched on the telephone will vibrate when a call is received. Switching on vibration alert will silence the ring volume. However, when the ring volume is adjusted after the vibration alert is switched on, the telephone will ring and vibrate when a call is received.
During standby:
卌洞 and hold to switch on or off, when switched on, the phone will vibrate briefly


## Automatic Redial


When a call is unsuccessful the telephone will ask if you want to redial the telephone number again automatically.

Finwhen "OK" is displayed in the option area
Auto Redial will countdown the display to the next redial
To stop redialling, © when "Cancel" is displayed in the option area

```
                                    T..|I
    Auto Redial
        00:32

If a call is repeatedly unsuccessful you will not be able to automatically redial the telephone number. In this case you must redial the telephone number manually.

\section*{Advanced Operation}

\section*{Concept of Operation}

There is a close relationship between the select key, navigation key and the display.
Pressing © scrolls through the main area of the display. Pressing \(\odot\) scrolls through options at the bottom right of the display. To choose the option, press © .


\section*{DTMF Tones}

DTMF tones can be sent during conversation. These are often used to access voice mail, paging and computerised home banking. For example, you may need to input a number to remotely access voice mail messages.
Send DTMF Tones During a Call
digits (0 to 9, \# and *)

\section*{Pause Dial}


Using pauses allows you to send DTMF tones automatically.
1 telephone number
2 (0+ and hold until a " \(P\) " appears
3 DTMF digits after the pause e.g. Enter the number to access voice
mail messages. Repeat step 2 for more pauses.
4 为
When the call is successful DTMF tones will be sent every 3 seconds or when \(๑\) is pressed

\section*{Call Hold/Call Waiting}

\section*{Holding/Resuming a Call}
is

when "Hold" is displayed in the option area
(1) when "Resume" is displayed in the option area

Making a Second Call
1 telephone number, or recall from Phonebook - see Retrieving a Telephone Number page 15
2 为 ©
The first call will be placed on hold.

\section*{Receiving a Second Call}

A second call can be received, if call waiting is switched on - see "Call Service" page 22. It is not possible to have more than one fax or data call. All voice calls must be ended before you can make or receive a fax or data call.


Accept a Second Call
© when "Accept" is displayed in the option area
The current call will be placed on hold.
Reject a Second Call
1 to display "Reject" in the option area
2 为
End Current Call and Receive Second Call
1 with a waiting call
2 any key except \(\propto\)

\section*{Operation During Two Calls}

Swap Between Calls
(2) when "Swap" is displayed in the option area End Current Call

1 to display "End" in the option area
2 氷


The held call will remain held.
End Both Calls
皮

\section*{Stored Numbers}

\section*{Note Pad}

During a call you can enter numbers which you may wish to dial when the call has ended．
During a call：telephone number
When the call has ended press ©to call that number
To store in Phonebook，press while the number is displayed－see＂Phonebook＂page 20.

\section*{Recent Numbers}

Recently dialled telephone numbers will be stored in＂Last Dialled＂．
If Calling Line Identification is available the caller＇s telephone number for an answered call will be stored in ＂Answered＂and an unanswered call will be stored in＂Unanswered＂．

When the store is full the next telephone number will overwrite the oldest．


1 沕
2 为
3 䠌
4 （a）to point at the telephone number（or name）you wish to dial
You can store these telephone numbers into the Phonebook by pressing © ．
5 分
You can edit or delete the telephone number before dialling－see＂Phonebook／Recall＂page 20.

\section*{Calling the Last Dialled Number}

2 To redial your last called telephone number

\section*{Returning an Unanswered Call}

When the display shows that you have received calls but not answered them．
1 为
The last caller＇s telephone number will be displayed．
2 to point at the telephone number you wish to dial
3 为

\section*{Phonebook}

Telephone numbers are stored on your SIM．Therefore，the number of locations，length of name and number of telephone numbers that can be stored are dependant on your SIM．
Storing a Telephone Number


1 telephone number
2 为 ©
The telephone number entered in step 1 will be displayed．
3 Edit the displayed number if necessary
4 （c）to enter the telephone number
5 name－see＂Alpha Entry＂page 19
6 （）to enter the name
7 location number－if you do not want Automatic location

\section*{Automatic Location}

The telephone number can be stored automatically at the first available location. This can T..III
be done instead of entering a location number.
vinwhen "Any" is displayed in the option area of the display

Location:
(1-256)

60-9

\section*{Overwrite Protection}

If a location is occupied you will be asked if you wish to overwrite the current information.
(1) to overwrite the selected location

Fin (C) to choose another location number

Duerwrite?
Home
(181)

OK

\section*{Retrieving a Telephone Number}


1 为
2 to browse through the Phonebook
You can browse through the Phonebook in the order that was last used by the Phonebook menu see page 20.
The telephone number, or name, pointed can be dialled, recalled, edited or deleted.

\section*{View}

This is used to review the telephone number and name together or just the name．
©（c）when＂View＂is displayed in the option area
Recall
1 to display＂Recall＂in the option area
2 （1）
Dialling
When the desired telephone number or name is displayed
为 n
```

    T..II
    Direct

- Home
Work
4.204+ Recall

```

\section*{Editing}

1 to display＂Edit＂in the option area
2 皮
3 new telephone number
4 为
5 new name
\begin{tabular}{|ll|}
\hline Direct & T．．III \\
Home & \\
Work & \\
E204＋ & Edit \\
\hline
\end{tabular}

6 m

\section*{Deleting}

1 to display＂Delete＂in the option area
2 （）twice

\section*{Speed Dial a Stored Number}

1 location number - leading zeros may be left out
2 \#
3 (2)

\section*{Fixed Dial}

The Fixed Dial Store is part of Phonebook, but with additional security. When the security feature Fixed Dial is switched on it is only possible to make calls with telephone numbers that are in the Fixed Dial Store.
When Fixed Dial is switched on any manually dialled telephone numbers must match a telephone number in the Fixed Dial Store.
To store, edit or delete a telephone number in the Fixed Dial Store "Fixed Dial" must be switched on - see Security page 23. With Fixed Dial switched on, all telephone numbers can be added, edited or deleted as normal, but you will be asked for PIN2 - see Security page 23.

\section*{"Wild" Numbers}
"Wild" numbers are spaces that can be stored in a telephone number. The "wild" numbers must be filled before the telephone number is dialled. In this way a call can be restricted to a specific area by storing the area code of a telephone and when recalled the remainder can be added. The "wild" numbers can be anywhere within a stored telephone number.
(0) and hold until "_" appears to enter a wild number

When the telephone number is recalled pressing a numeric key will fill in a "wild" number.


\section*{Service Numbers}

Your Service Provider may program some special telephone numbers into the Service Dial area of the Phonebook. It is not possible to modify the telephone numbers stored in the Service Dial part of the Phonebook.
nisand hold
to browse through the Service Dial list of telephone numbers
The telephone number pointed to can only be recalled or dialled.

\section*{Hot Key Telephone Numbers}

It is possible to dial telephone numbers from the Phonebook or Service Dial part of Phonebook very quickly. Some Hot Key telephone numbers may be reserved by the Service Provider, for example the first three Hot Key telephone numbers may be linked to the Service Dial part of the Phonebook. To select a source for the Hot Key telephone numbers see Personalise - page 25.
```

min) to (9mus) and hold

```

娍

\section*{Alpha Entry}

Alpha Entry is used to enter alphanumeric characters into Phonebook, Short Messages, Price Per Unit and the Greeting Message.
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Key} & \multicolumn{3}{|c|}{Character entry type} \\
\hline & Normal (ABC) & Greek (АВГ) & Extended (AÄÅ) \\
\hline 1 & \multicolumn{3}{|l|}{} \\
\hline (2ac) & ABCabc & АВГ & AÄÅÆBCÇaäåæàbc \\
\hline (30¢) & DEFdef & \(\Delta \mathrm{EZ}\) & DEÉFdeéèf \\
\hline (40II) & GHIghi & H ¢I & GHIghiì \\
\hline (5.kx) & JKLjkI & K \(\wedge\) M & JKLjkl \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline Key & \multicolumn{3}{|c|}{Character entry type} \\
\hline & Normal (ABC) & Greek ( \(\mathrm{AB} \mathrm{\Gamma}\) ) & Extended (AÄÅ) \\
\hline (6mio) & MNOmno & \(\mathrm{N} E \mathrm{O}\) & MNÑOÖØmnñoöøò \\
\hline (70006) & PQRSpqrs & ПРГ & PQRSpqrsß \\
\hline (8iv) & TUVtuv & ТҮФ & TUÜVtuüùv \\
\hline (9men) & WXYZwxyz & X ¢ \(\Omega\) & WXYZwxyz \\
\hline
\end{tabular}

Each time a key is pressed it will display the next character. When another key is pressed or no key is pressed for a short time the cursor will move to the next position.
To access the different character types, normal (ABC), numerals (0-9), Greek characters ( \(\mathrm{AB} \Gamma\) ) and extended characters (AÄÅ) press

\section*{Editing Alpha Entry}

Pressing © will move you up or down one line. Pressing \(\uparrow\) ) will move you left or right one character.When the cursor is moved over a character and another key pressed this will insert the new character. Pressing (C) will delete the character to the left of the cursor or delete the current line when pressed and held.

\section*{Additional Features}

When the word "Menu" is in the option area of the display pressing the () will display a menu of telephone features. To select a feature press © so that the pointer is showing next to the feature that you require then press © .
A quick way of selecting a feature is to press the menu number shown in the bottom left of the display.

To leave the menu press (C) repeatedly.
During a call a restricted menu will be available.

\section*{Key Guard}


Key Guard will prevent any keys from being accidentally pressed e.g. when the telephone is being carried.
When a call is received Key Guard will be temporarily disabled allowing you to press any key to answer the call.
When the telephone is mounted in the optional Car Mount Kit Key Guard will be disabled.
Emergency calls can still be made.
Emergency calls Disabling Key Guard
\(\circ\)
© © twice when "Free" is displayed in the option area of the display.

\section*{Phonebook}


Review
My Numbers
Service Dial
Most common use of the Phonebook is covered in Phonebook - see page 14.
When pointing to Browse pressing \(\odot\) will show "Loc'ns (Locations)" to browse through Phonebook by location number or "Name" to browse by name in alphabetical order. When browsing by name pressing a lettered key will take you to the first entry starting with that letter.
Review shows how many locations are available in the Phonebook. Occupied locations are shown with """.

My Numbers is a convenient part of Phonebook where your voice, fax and data telephone number(s) can be stored and viewed.
Service Dial enables you to view or recall the service dialling number(s) preprogrammed by your Service Provider.

\section*{Messages}


You can receive, display, edit and/or send short text messages, of up to 160 characters.
Before you can send a message you must enter the Message Centre number into the Parameters. Your Service Provider will supply the Message Centre number.
When new messages are received, the message indicator ( \(\boxed{\text { a }}\) ) flashes and they are automatically stored in the message area of your SIM. When all the messages are read, the disappears. If the message area is full the lights and a new message will be rejected. To receive new messages you will have to erase unwanted messages.

Received messages will be stored in the Receive List. Flashing "•" will indicate unread messages. Once the message is selected, you can read, delete, edit and
reply. With the word "Sender" displayed or a telephone number in quotation marks (" "), pressing © dials the telephone number or pressing \({ }^{( }\)stores the telephone number in the Phonebook.
When a message has been sent or edited it will be stored in the Send List.
Create will create a new message and send or store it in the Send List.

Review allows you to review how much of the message area is available.

\section*{Parameters}

The Parameters are necessary for receiving or sending messages.
Auto Delete will erase messages automatically. When "Rcvd (Received) Read" is selected, a new message will overwrite the oldest read message. When "Rcvd (Received) Any" is selected, a new message will overwrite the oldest message even though it may not have been read.
Lifetime is the duration that your message is stored at the Message Centre. Delivery attempts will be repeated until the message has been delivered or the Life Time expires.
The Message Centre is where messages are sent before they are forwarded on to their destination. The Message

Centre number may be pre-programmed into your SIM or supplied by your Service Provider.
When your message has been delivered a confirmation can be received if Report is set to "Yes".
The Message Centre may be able to convert the message to the format specified by Protocol.

\section*{Broadcasts}

Broadcast Messages can display information about your current area such as traffic or weather information.
The Message List will display the last received broadcast messages.
By specifying the required subjects in the Topics List the telephone will receive related messages. If the required topic is not displayed, enter its topic code provided by your Service Provider.
The preferred Language in which broadcast messages are displayed can be changed.


\section*{Reading a Newly Received Message}
(c) when "Read" is displayed in the option area of the display.

\section*{Call Service}


Last Call will display the duration and call charge, if available, of the last call during standby or the current call during a call. Times are indicated as: hours (0-99), minutes (0-59), second (0-59) - HH:MM:SS.
All Calls displays the accumulated duration and call charge, if available, of incoming and outgoing calls. The lock code is required to reset the timer and PIN2 is required to reset the timer and call charge.
Call Waiting allows you to receive a second call during your current call. When updating or checking the status of call waiting the telephone must be registered with a network.
Caller's ID allows you to check the status of Calling Line Identification. The telephone must be registered with a network.

Using Withhold ID it is possible to check if you send Calling Line Identification information when you make a call. When checking the Status of Withhold ID the telephone must be registered with a network.
Call Charge will set the cost of each unit for call charge information and the required currency in which call charge is displayed.
Using Max. Cost can restrict use of the telephone to a specified number of units.

NOTE:The duration of one unit may vary during the day, peak and off-peak times. Therefore, the call charge can be calculated accordingly. However, call charge information may not give an accurate reflection of the tariffs charged by your Service Provider.

\section*{Call Divert}


When Call Divert is enabled the divert icon \((\longrightarrow)\) is displayed.
You can divert voice, fax and data calls using different circumstances and to different telephone numbers.

When updating or checking the Status of Call Divert the telephone must be registered with a network.

\section*{Security}


There are three types of security code for your telephone:
Lock Code: Controls telephone security - Phone Lock. Factory-set to "0000".
PIN: Controls SIM security.
PIN2: Controls security for Fixed Dial Store and Call Charge metering.
It is recommended that you memorise your security codes. If you need to make a note of your security codes, never write them in a way that they can be recognised by another person. If you forget them contact your dealer for the lock code or your Service Provider for PIN and PIN2.

Phone Lock will prohibit normal operation of the telephone. Only emergency calls can be made and received calls answered. Once the Phone Lock is
enabled the lock icon (0-) is displayed. To restore normal operation, enter your lock code.
Call Bar is used to restrict certain outgoing and/or incoming calls. Call Bar is controlled by a security Password that is supplied by your Service Provider. When updating or checking the Status of Call Bar the telephone must be registered with a network. Different Call Bar restrictions can be used for voice, fax and data calls. Any combination of call restrictions can be set.
When the PIN is enabled you will be asked to enter the PIN every time the telephone is switched on. If asked, enter the PIN followed by ©. The PIN can be changed by pressing © when "Change" is displayed in the option area of the display.
The PIN2 can be changed by pressing © () when "Change" is displayed in the option area of the display.
With Fixed Dial switched on you can only make calls with the telephone numbers stored in Fixed Dial area of the Phonebook - see Fixed Dial page 17. Emergency calls can be made at any time. To use this function PIN2 is required.

\section*{Network}


When not in your home country you may use a network that you do not directly subscribe to, this is called
ROAMING. National Law may not permit roaming in your home country.
New Network is used to manually select a network that is available in your current location.
When the Search Mode is set to "Automatic" the telephone will search through the preferred network list and select a new network automatically. While the Search Mode is set to "Manual" the telephone will display network(s) that are available in your current location to ask you to select one.
The Preferred Network List is used when the Search Mode has been set to "Automatic". The location numbers in the Preferred Network List show the search priority. Selecting "Insert" stores a new network in the currently displayed location and then moves other networks down, "Edit" overwrites the old network with a new one, and "Add" stores a new network at the end of the list.

\section*{Personalise}


The Language that the telephone will use for display messages can be changed.
In Tones, the telephone key, ring and warning tones (except low battery warning), can be switched off. When All Tones are switched off the silent indicator ( \(\mathcal{X}\) ) is displayed.
When the Ring Volume is switched off the silent indicator \((\mathcal{X})\) is displayed. Increasing the volume level above maximum can set an escalating ring tone.
A different Ring Type can be used for voice, fax, data and messages.
The Keep Alive timer will delay switching off the telephone, when the telephone is mounted in the optional Car Mount Kit and the vehicle ignition is turned off. If the
ignition is turned off during a call the call will be maintained. When the call ends the timer will start. If the telephone is removed from the Car Mount Kit during the specified delay time, the timer will be cancelled and the telephone will not be turned off.
When Automatic Answer is switched on, and the telephone is mounted in the optional Car Mount Kit, a call will be answered without pressing any keys.
A personalised Greeting Message can be programmed for when the telephone is switched on - see Alpha Entry page 19.
The brightness of the Backlight can be changed.
DTMF Length can be changed between short and long.
Defaults will return your Personal Settings to their factory default, except the lock code and language.
The source for the Hot Key telephone numbers can be set using the Hot Key Dial menu.

\section*{Battery Information}

\section*{Low Battery}

When the battery power is low a warning tone will sound and a LOW BATTERY message will flash. The power will automatically shut off shortly after the warning tone. Fully charge the battery pack or replace it with a fully charged one.
During conversation finish your call immediately.

\section*{Charging the Battery}

The battery pack must be attached to the telephone before the AC Adaptor.
NOTE: DO NOT force the connector as this may damage the telephone and/or the AC Adaptor.
When charging is complete remove the AC Adaptor.
To maintain maximum performance of Ni-MH Battery Packs always use until the Low Battery Warning and then fully recharge.

Operation of Battery Level Indicator


\begin{tabular}{|l|l|l} 
& While charging & Charging complete \\
\hline Telephone on & & \\
\hline Telephone off & & Indicator off \\
\hline
\end{tabular}

\section*{Care and Maintenance}

Pressing any of the keys may produce a loud tone. Avoid holding the telephone close to the ear while pressing the keys.

Extreme temperatures may have a temporary effect on the operation of your telephone. This is normal and does not indicate a fault.

Do not disassemble the equipment. There are no user-serviceable parts.

Do not subject the equipment to excessive vibration or shock.

Avoid contact with liquids. If the equipment becomes wet immediately remove the power and contact your dealer.

The equipment may be cleaned with a soft cloth dampened with a mild detergent and water. Petroleum based cleaners may damage the equipment.


Do not leave the equipment in direct sunlight or a humid, dusty or hot area.

Keep metallic items that may accidentally touch the terminals away from the equipment.

Always charge the Battery Pack in a well ventilated area, not in direct sunlight, between \(+5^{\circ} \mathrm{C}\) and \(+35^{\circ} \mathrm{C}\). It is not possible to recharge the battery pack if it is outside this temperature range.

Avoid recharging battery packs for longer than recommended.

Do not incinerate or dispose of the battery packs as ordinary rubbish. The battery packs must be disposed of in accordance with local legislation and may be recycled.

When disposing of any packing materials or old equipment check with your local authorities for information on recycling.

\section*{Other Information}

\section*{Glossary of Terms}
\begin{tabular}{|l|l} 
DTMF Tones & \begin{tabular}{l} 
Dual Tone Multi-Frequency tones allow you to communicate with computerised telephone \\
systems, voice mailboxes etc.
\end{tabular} \\
\hline GSM & \begin{tabular}{l} 
Global System for Mobile Communications. The name given to the advanced digital \\
technology that your telephone uses.
\end{tabular} \\
\hline Home country & The country where your home network operates. \\
\hline Home network & The GSM network on which your subscription details are held. \\
\hline \begin{tabular}{l} 
Network \\
Operator
\end{tabular} & \begin{tabular}{l} 
The organisation responsible for operating a GSM network. Each country will have a different \\
network operator.
\end{tabular} \\
\hline Password & Used for the control of the Call Bar. Supplied by your Service Provider. \\
\hline PIN & \begin{tabular}{l} 
Personal Identification Number used for SIM security. Supplied by your Service Provider. If \\
the PIN is entered incorrectly 3 times, the PIN will be blocked.
\end{tabular} \\
\hline PIN2 & \begin{tabular}{l} 
Personal Identification Number used for the control of Fixed Dial Store and Call Charge \\
metering. Supplied by your Service Provider. If the PIN2 is entered incorrectly 3 times, the \\
PIN2 will be blocked.
\end{tabular} \\
\hline
\end{tabular}
\begin{tabular}{ll} 
PUK/ PUK2 & \begin{tabular}{l} 
PIN/PIN2 Unblocking Key. Used to unblock the PIN/PIN2. Supplied by your Service Provider. \\
If the PUK/PUK2 is entered incorrectly 10 times, the PUK/PUK2 will be blocked.
\end{tabular} \\
\hline Registration & \begin{tabular}{l} 
The act of locking on to a GSM network. This is usually performed automatically by your \\
telephone.
\end{tabular} \\
\hline Roaming & The ability to use your telephone on networks other than your Home network. \\
\hline \begin{tabular}{l} 
Service \\
Provider
\end{tabular} & The organisation responsible for providing access to the GSM network. \\
\hline SIM & \begin{tabular}{l} 
Subscriber Identity Module. A small smart-card which stores unique subscriber and \\
user-entered information such as Phonebook and Short Messages. Supplied by your Service \\
Provider.
\end{tabular}
\end{tabular}

\section*{Trouble Shooting}

Should any problem persist contact your dealer.
\begin{tabular}{l|l|l}
\hline Problem & Cause & Remedy \\
\hline \begin{tabular}{l} 
Telephone will not \\
switch on.
\end{tabular} & & \begin{tabular}{l} 
Check that the Battery Pack is fully charged and correctly \\
connected to the telephone.
\end{tabular} \\
\hline \begin{tabular}{l} 
Extremely short \\
battery life for a new \\
battery pack.
\end{tabular} & \begin{tabular}{l} 
The network you are using and \\
the condition of the battery \\
pack can affect battery life.
\end{tabular} & \\
\hline \begin{tabular}{l} 
Short battery life for \\
an old battery pack.
\end{tabular} & \begin{tabular}{l} 
The battery pack was worn \\
out.
\end{tabular} & Replace with a new one. \\
\hline & \begin{tabular}{l} 
The life of the battery pack is \\
To maintain maximum performance always use until the \\
Low Battery Warning and then fully recharge the battery \\
pack.
\end{tabular} \\
\hline Short battery life focted by improper charging, \\
To revive the Battery Pack use the telephone until the Low \\
this is inherent in all Ni-MH \\
batteries. & \begin{tabular}{l} 
Battery Warning and then fully recharge, repeat this \\
process at least three times. However, if the battery life is \\
still short, the Battery Pack has eventually worn out. \\
Replace with a new one.
\end{tabular} \\
\hline \begin{tabular}{l} 
The telephone \\
cannot be switched \\
on when charging
\end{tabular} & \begin{tabular}{l} 
When the Battery Pack has \\
been deeply discharged the \\
telephone will take a short time \\
to detect which type of Battery \\
Pack it is charging
\end{tabular} & \begin{tabular}{l} 
Leave the telephone charging the Battery Pack for a few \\
minutes before attempting to switch it on.
\end{tabular} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline Problem & Cause & Remedy \\
\hline \multirow{3}{*}{Calls cannot be made.} & The telephone is locked. & Unlock the telephone (Menu: Security: Phone Lock) \\
\hline & Outgoing calls are barred. & Disable the outgoing call barring (Menu: Security: Call Bar) \\
\hline & The telephone is not registered to a network. & Move to a coverage area and operate your telephone after it has registered with a network. \\
\hline Calls cannot be made from Fixed Dial Store. & & \begin{tabular}{l}
Check your SIM supports Fixed Dial. \\
Check if the Fixed Dial is switched on (Menu: Security: Fixed Dial). \\
Check the telephone number is stored in the Fixed Dial.
\end{tabular} \\
\hline \multirow{3}{*}{Calls cannot be received.} & The telephone is not switched on. & Switch the telephone on. \\
\hline & Incoming calls are barred. & Disable the incoming call barring (Menu: Security: Call Bar) \\
\hline & The telephone is not registered to a network. & Move to a coverage area and operate your telephone after it has registered with a network. \\
\hline Emergency calls cannot be made. & You are not in a GSM coverage area. & Check that the antenna symbol \(\boldsymbol{Y}\) is displayed. Move to a coverage area and operate your telephone when the antenna symbol is displayed. \\
\hline \multirow[t]{2}{*}{Telephone numbers cannot be recalled.} & The telephone is locked. & Unlock the telephone (Menu: Security: Phone Lock) \\
\hline & Fixed Dial is switched on. & Switch off Fixed Dial (Menu: Security: Fixed Dial) \\
\hline
\end{tabular}

\section*{Important Error Messages}
\begin{tabular}{l|l}
\hline \begin{tabular}{l} 
Area not \\
Allowed
\end{tabular} & Roaming in the selected area is not allowed. \\
\hline \begin{tabular}{l} 
Network not \\
Allowed
\end{tabular} & Roaming with the selected network is not allowed. \\
\hline \begin{tabular}{l} 
Security \\
Failure
\end{tabular} & \begin{tabular}{l} 
The network has detected authentication failure because your SIM is not registered with that \\
network. Contact your Service Provider.
\end{tabular} \\
\hline SIM Blocked & \begin{tabular}{l} 
The SIM is blocked because the wrong PUK has been entered ten times. Contact your Service \\
Provider.
\end{tabular} \\
\hline SIM Error & \begin{tabular}{l} 
The telephone has detected a problem with the SIM. Switch the telephone off and then back on. \\
If the message does not disappear contact your Service Provider.
\end{tabular} \\
\hline \begin{tabular}{l} 
Message \\
Rejected \\
Store Full
\end{tabular} & \begin{tabular}{l} 
A message has been received but the message store is full. To receive messages, delete some \\
of the currently stored messages or set messages to automatically clear (Menu: Messages: \\
Parameters: Auto Delete)
\end{tabular} \\
\hline \begin{tabular}{l} 
PIN2 \\
Invalidated
\end{tabular} & \begin{tabular}{l} 
The PIN2 is blocked permanently because the wrong PUK2 has been entered 10 times. Services \\
controlled by PIN2 cannot be used. Contact your Service Provider.
\end{tabular} \\
\hline
\end{tabular}

Warning Store Full Continue?

The message area is full. Your messages cannot be stored until some of the currently stored messages are deleted.

Auto Redial List Full

Redial list of unsuccessfully dialled numbers is full. Switch the telephone off and then on again.

\section*{Specifications}

\section*{Telephone}
\begin{tabular}{ll} 
Type & GSM Class 4 \\
\hline Temperature range & \\
Charging & \(+5^{\circ} \mathrm{C}\) to \(+35^{\circ} \mathrm{C}\) \\
Storage & \(-20^{\circ} \mathrm{C}\) to \(+60^{\circ} \mathrm{C}\) \\
\hline
\end{tabular}
\begin{tabular}{l|lll}
\hline \multicolumn{2}{l}{ Battery - Attached to telephone } & \\
\hline & Battery Pack (EB-BS520) & Battery Pack (EB-BL520) \\
\hline Weight & 150 g & 205 g \\
\hline \begin{tabular}{l} 
Dimensions \\
Height \(x\) Width \(\times\) Depth
\end{tabular} & \(140 \times 46 \times 20.3 \mathrm{~mm}\) & \(140 \times 46 \times 30.5 \mathrm{~mm}\) \\
\hline Supply Voltage & \(4.8 \mathrm{~V} \mathrm{DC}, 650 \mathrm{mAh}\) Ni-MH & 4.8 V DC, \(1300 \mathrm{mAh} \mathrm{Ni-MH}\) \\
\hline \begin{tabular}{l} 
Standby time \((\mathrm{h})\) \\
Talk Time \((\mathrm{h})\)
\end{tabular} & \begin{tabular}{l} 
Up to 80 \\
Up to 3
\end{tabular} & \begin{tabular}{l} 
Up to 160 \\
Up to 6
\end{tabular} \\
\hline Charge Time \((\min )\) & 130 & 260 \\
\hline
\end{tabular}

NOTE: Charge time will be longer when the telephone is turned on. Battery life is affected by the network you are using and the condition of the battery pack.

\section*{Notes}

The Serial Number can be found on the outside of the telephone under the battery. For your convenience we recommend that you note the following details as a record of your purchase.
\begin{tabular}{|l|l|}
\hline Part Number & \\
\hline Serial Number & \\
\hline & \\
\hline Dealer Name & \\
& \\
\hline Purchase Date & \\
\hline
\end{tabular}

\section*{BULL CP8 PATENT}
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