

# Panasonic

**Operating Instructions  
Digital Cellular Telephone**

**EB-GD90  
Main Kit**



*Before operating this equipment please read these instructions completely.*

The Serial Number can be found on the outside of the phone under the battery. For your convenience we recommend that you note the following details as a record of your purchase.

Part Number	
Serial Number	
Dealer Name	
Purchase Date	



LOW EMISSIONS  
DURING PRODUCTION

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# Introduction

Thank you for purchasing this Panasonic GD90 digital cellular phone. This phone is designed to operate on the Global System for Mobile Communications (GSM), GSM900 or GSM1800.

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).

⇒Text⇐ Shows that the display text will be flashing.



Shows that the information is a Quick Tip.

## Using This Manual

This manual is designed in sections to guide you through the many functions of this phone. Listed below is a brief outline of each section, to help you find the information you need.

**Getting Started:** Details how to fit the battery, insert the SIM card, introduces the controls and display of the phone.

**Basic Operation:** Details how to make and receive calls, change the phone volume, use Vibration Alert and Key Guard the Clock/Alarm.

**Phone Security:** Details how to use the Phone Lock and PIN Security features as well as how to change security codes.

**Advanced Operation:** Details how to record using Voice Memo, send DTMF tones, create Alert Profiles, use Call Waiting, Call Transfer and Multi-party.

**Phonebook Basics:** Details how to create, store, retrieve, and browse a number in a Phonebook as well as the more advanced Phonebook features.

**Advanced Phonebook:** Details the operation of the Note Pad, Recent Number recall and limiting the numbers available using Fixed Dialling.

## Introduction

**Short Text Messages:** Details how to set up your phone to receive and send Short Text Messages and to receive Cell Broadcasts.

**Alpha Entry:** Details how to access alternative characters with the keypad.

**Menu Structures:** Details the features that can be accessed from the phone menu.

The remaining sections details how to take care of your phone, lists terms used in this manual, a Troubleshooting and Error Message section and the Specifications.

# Safety



This equipment is intended for use when supplied with power from the built-in charger or Dual Charger (EB-CRD90) through the AC Adaptor (EB-CAD70Vxx)\*. 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 phone.



Switch off your cellular phone when in an aircraft. The use of cellular phones 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 phone services to the offender, or legal action or both.



You are advised not to use the equipment at a refueling 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°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 phone 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 phones within the country you are driving and observe them at all times.



Care must be taken when using the phone in close proximity to personal medical devices, such as pacemakers and hearing aids.

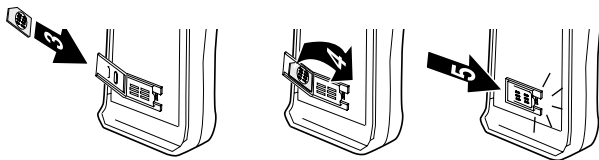
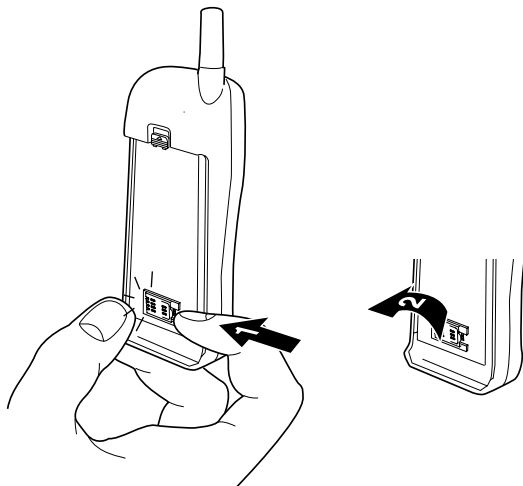
\* Where xx identifies the specific AC Adaptor region, eg CN, EU, HK, TW, UK.

# Getting Started

## Fitting/Removing the SIM

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

### *Fitting the SIM*



### *Removing the SIM*

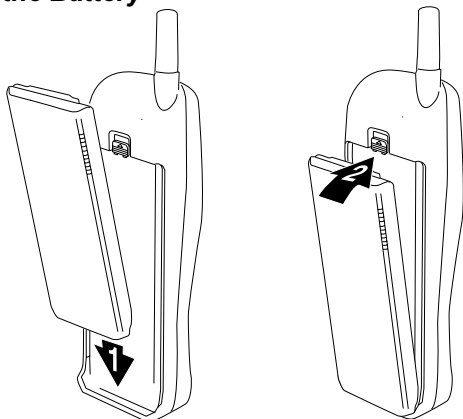
To remove the SIM follow the above steps in reverse.



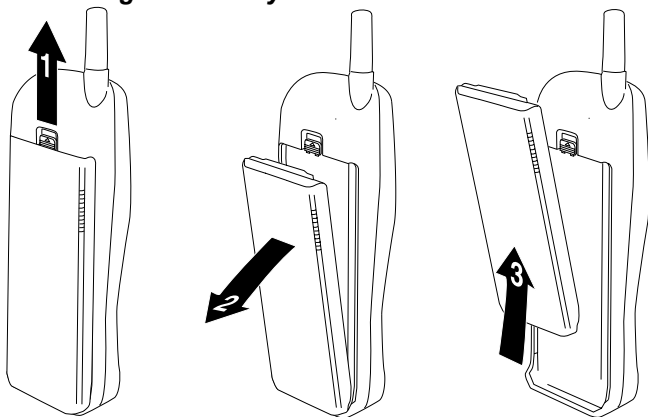
## Fitting/Removing the Battery

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".

### *Fitting the Battery*



### *Removing the Battery*



## Getting Started

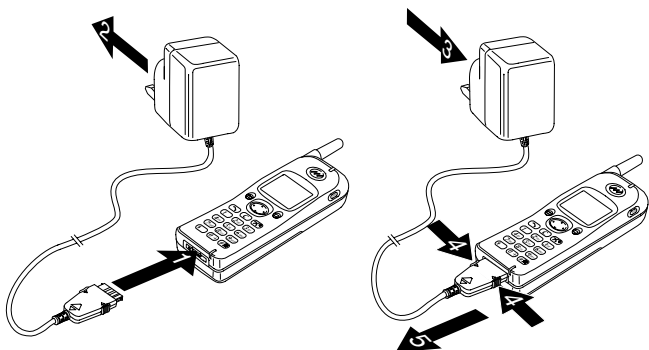
### Charging the Battery

The battery pack must be attached to the phone before the AC Adaptor.




**DO NOT** force the connector as this may damage the phone and/or the AC Adaptor.

When charging is complete remove the AC Adaptor.

**NOTE:** If the Battery Pack is deeply discharged, the phone may take some time to detect which type of Battery Pack it is charging. During this period leave the phone connected to the charger until the charge LED and Battery Level Indicator appears and charging is complete.

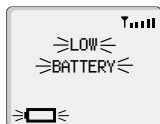


### Operation of Battery Level Indicator

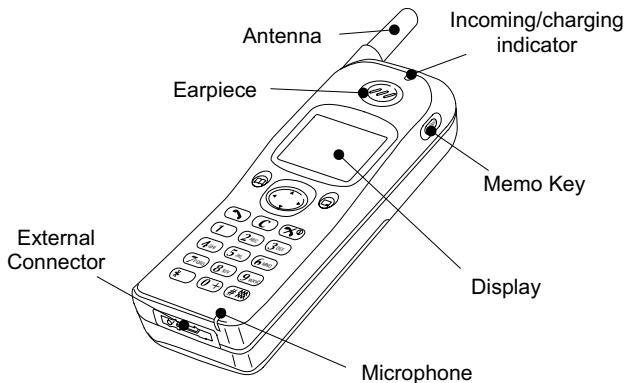
	While charging	Charging complete
Telephone on		
Telephone off		Indicator off








### Low Battery Warning

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.



## 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
- 
**Select key** – selects an option in the option area of the display
- 
 accesses **Phonebook** or **switches character types**
- 
**makes a call** or recalls recently dialed phone numbers
- 
**clears** the last digit entered, clears all digits when pressed and held or returns to the previous display
- 
**ends** a call or **switches the phone on/off** when pressed and held
- Digit keys** 0 to 9, \* and # – the # key will switch on and off vibration alert
- 
**records a conversation** during a call or **plays it back** during standby

# Display

Phone/SIM  
Phonebook  
indicator

Location area -  
indicates menu  
number, location  
number, alpha  
mode or alarm  
mark (🕒).



**Main Display**  
area

Option area -  
shows options  
that can be  
selected by the  
⌂ key

Navigation prompt - (◐) scrolls through the main area of the display, (◑) scrolls through options at the bottom right of the display.

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

△ lights when you are registered to a non-home network - **roaming**

↳ lights when **call divert** is enabled

⚡ lights when **vibration alert** is enabled

🎵 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

📶 indicates that it is **possible to make emergency calls**

▬▬▬▬ indicates the received **signal strength** - ▬▬▬▬ weak signal, ▬▬▬▬ strong signal

🔋 indicates the **battery level** - 🔋 full, 🔋 low battery

📱 indicates that the source of the currently selected number is the **Mobile Phonebook**

📠 indicates that the source of the currently selected number is the **SIM Phonebook**

🕒 displayed in the Location area indicates **alarm** is set

⌂ indicates that the **Navigation key** (◐) can be pressed

# Basic Operation

## Power On/Off

To turn the phone on or off.



and hold to switch power on

A greeting will be displayed.



and hold to switch power off



## Making a Call

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



1



area code and phone number

2



## 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



and hold until a "+" appears

2



country code or ☺ to scroll through the abbreviated international names

3



area code and phone number

4









**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.

## Basic Operation

### Emergency Calls



To make an emergency call the antenna symbol (T) must be present.

     or press  when "SOS" is displayed in the option area of the display


### Automatic Redial

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



  when "OK" is displayed in the option area

Auto Redial will countdown the display to the next redial.

To stop redialling, press  when "Cancel" is displayed in the option area



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




### Ending a Call



 

### Answering a Call

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




 any key except  or 

  to reject the call

If a call is not answered the number of unanswered calls will be displayed.



 any key to clear the display

## Caller Identification

This feature allows you to identify incoming calls and accept or reject them. The caller's phone number, and name if stored in Phonebook, will be displayed.



**NOTE:** Caller Identification may not always be available.



## Volume Control



### Earpiece Volume



Four levels of volume adjustment are available.

During a call:

  to decrease the volume















  to increase the volume



### Ring and Key Volume

Changing the ring and key volume is done in the same way. If you increase the ring volume above maximum it will set an escalating ring tone. If you turn the ring volume off, the silent indicator icon (🔇) will be displayed.

When "Menu" is displayed in the option area of the display:


- 1   and  to point to "Personalise"
- 2   and  to point to "Tones"
- 3   and  to point to "Ring Volume" or "Key Volume"
- 4  
- 5 Use  to set the volume
- 6  

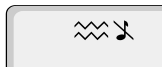
### Vibration Alert



When vibration alert is switched on the phone 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 phone will ring and vibrate when a call is received.

During standby:



 **#xxx** and hold to switch on or off. When switched on, the phone will vibrate briefly



### Key Guard

Key Guard will prevent any keys from being accidentally pressed e.g. when the phone is being carried.



When “Menu” is displayed in the option area of the display:

  three times to enable Key Guard

When a call is received Key Guard will be temporarily disabled, allowing you to press any key to answer the call. Emergency calls can still be made.

### Disabling Key Guard



  twice when “Free” is displayed in the option area of the display.












### Phone Clock

This phone incorporates a clock with date/time, an alarm and a power on/off feature.

#### Initially Setting the Clock




When “Menu” is displayed in the option area of the display:


- 1   and  to point to “Personalise”
- 2   and  to point to “Clock Function”
- 3   and  to point to “Clock Set”

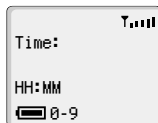







5  enter the digits for the date in the format day/month/year









7  enter the digits for the time using 24 hour clock





### Setting the Clock Format

1   and  to point to "Personalise"

2   and  to point to "Clock Function"

3   and  to point to "Clock Format"






5   to select the format of clock and/or date






### Setting the Alarm

**NOTE:** If you have not already set the clock, you will be asked to do so prior to setting the alarm.


When "Menu" is displayed in the option area of the display:

1   and  to point to "Personalise"



2   and  to point to "Clock Function"

3   and  to point to "Alarm Set"




5  enter the digits for the time



7   to select the frequency of the alarm



Once the alarm has been set,  will be displayed when the phone is in standby mode.




## Basic Operation

### Muting the Alarm

When the set time is reached the alarm will sound and the display will flash with an alarm message. The alarm will sound for 30 seconds. If the alarm goes off during a call, it will activate vibration alert.







To end the alarm:

 any key

### Disabling the Alarm























To disable the alarm point to “Alarm Set”

- 1   twice
- 2   to point to “Disabled”
- 3  

### Adjusting the Alarm Time

When “Menu” is displayed in the option area of the display:

- 1   and  to point to “Personalise”
- 2   and  to point to “Clock Function”
- 3   and  to point to “Alarm Set”
- 4  
- 5   four times
- 6  enter the digits for the time
- 7  
- 8   to select the frequency of the alarm
- 9  

### Setting a Power On/Off Time

You can set your phone to turn itself on or off automatically at a specified time using the Power On/Off feature. The procedure for setting the Power On/Off automatically is similar to that for setting the Alarm. Adjustment of the Power On/Off Time is also similar to that for the alarm. For either setting or adjusting the time you need to select “Power On Time” or “Power Off Time” in the “Clock Function” menu.

# Phone Security







There are a number of security features for this phone that will protect against unauthorized use, and enable you to restrict access to certain features.


It is recommended that you memorize your security codes. If you need to make a note of your security codes, never write them in a way that they can be recognized by another person. If you forget them contact your dealer for the Phone Lock Code or your Service Provider for PIN and PIN2.

## Phone Lock

With the Phone Lock enabled you will be restricted to answer incoming calls and make emergency calls only. The Phone Lock Code is set to "0000" at the factory.


When "Menu" is displayed in the option area of the display:

- 1   and  to point to "Security"
- 2   twice to enable Phone Lock
- 3 Enter the 4-digit code press 

The phone will be locked and the lock icon () will appear in the display














## Unlocking the Phone

To restore normal operation, enter your Lock Code and press . The lock icon will disappear from the display. However, once you turn the phone off and on again you will be asked to enter the Lock Code again.

## Disabling Phone Lock

When "Menu" is displayed in the option area of the display:

- 1   and  to point to "Security"
- 2   and  to point to "Phone Lock"
- 3   until "Disable" appears in the option area of the display
- 4  
- 5 Enter the Lock Code and press 











### PIN

The PIN (Personal Identification Number) protects your SIM card against unauthorized use. If you enable the PIN, every time the phone is turned on you will be asked to enter the PIN. Once this has been correctly entered you will be able to use the phone. As with the Phone Lock you can change the PIN at any time.

PIN2 controls security for the Fixed Dial Store and Call Charge metering.

















#### ***Enabling/Disabling the PIN***

When “Menu” is displayed in the option area of the display:

- 1   and  to point to “Security”
- 2   and  to point to “PIN”
- 3   to enable/disable the PIN
- 4  PIN number 

#### **Changing Security Codes**

When “Menu” is displayed in the option area of the display:

- 1   and  to point to “Security”
- 2   and  to point to “Phone Lock” or “PIN”
- 3   until “Change” appears in the option area of the display
- 4   enter the current code
- 5   enter the new code
- 6   verify the new code
- 7  





# Advanced Operation

## Voice Memo


You can record a conversation for up to 15 seconds during a call. There are two separate areas for voice memo messages (Voice memo 1, Voice memo 2) allowing you to record two separate voice calls. If a different SIM is installed any voice memos will be lost.


**CAUTION:** Security of a recorded message is your responsibility. You **MUST** ask for the other party's consent before recording.

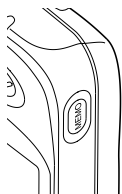
### Recording

  during a call



A tone will sound when recording starts. When the recording stops a tone will sound to you.


If you press  while recording a voice memo, recording to the current voice memo area will stop and will start in the other voice memo area.

If  is pressed when the two voice memo areas are occupied, the older record will be overwritten by the new memo.



### Play Back

  during standby.



If there are two voice memos recorded they will both be played back continuously. To swap playback between the two voice memos areas press  during playback.

If there is no recording two tones will sound.



To stop playing, press .

### Volume Control During Playback

While playing back:

 and  to adjust the playback volume of the voice memo


### Deleting

  twice during playback

### DTMF Tones

DTMF tones can be sent during conversation. These are often used to access voice mail, paging and computerized 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 \*)

#### Pause Dial


Using pauses allows you to send DTMF tones automatically.



- 1  phone 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.



- 4  














When the call is successful DTMF tones will be sent after 3 seconds or when  is pressed.

### Alert Profile

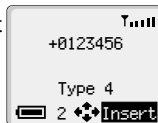
Alert Profile enables you to identify up to five callers with a particular ring tone and alternate backlight colour, making it easier to distinguish between callers.

#### Creating an Alert Profile

When “Menu” is displayed in the option area of the display:

- 1   and  to point to “Personalise”
- 2   and  to point to “Alert Profile”
- 3   when “Select” is displayed
- 4   when “Insert” is displayed
- 5  enter the phone number or recall from the Phonebook – see “Retrieving a Number” page 23
- 6  

- 7 and use to select the ring tone that you wish to use for incoming calls from this phone number



- 8

## Call Hold and Call Waiting

### *Holding/Resuming a Call*

- 1 when “Hold” is displayed in the option area
- 2 when “Resume” is displayed in the option area

### *Making a Second Call*

- 1 phone number, or recall from Phonebook – see “Retrieving a Number” page 23
- 2

The first call will be placed on hold.

### *Receiving a Second Call*

A second call can be received, if call waiting is switched on – see “Call Service” page 35. 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



### *End Current Call and Receive Second Call*

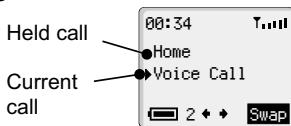
- 1 with a waiting call
- 2 any key except or

## Advanced Operation

### Operation During Two Calls

#### Swapping Between Calls

1   when "Swap" is displayed in the option area



#### End Current Call

1   to display "End" in the option area

2  

The held call will remain held.


#### End Both Calls

### Call Transfer

With two calls connected, Call Transfer enables you to connect them together ending your connection, leaving them to talk together without you.

When you have two calls:

1   to display "Trans." in the option area

2  

The two calls will be connected to each other and your call will be ended.

**NOTE:** Two call transfer cannot be utilized while in Multi-party mode.

### Multi-party Calls

A Multi-party call enables three to five people to be in conversation at the same time. It is possible to swap between a Multi-party call and another call in the same way as with two separate calls.

#### Enabling Multi-party

With two calls connected (one active, one on hold)

1   to display "Merge" in the option area

2  

A Multi-party call has been enabled, all three people will be able to talk to each other.



## Adding to Multi-party











You can add to the Multi-party call (up to a maximum of five). Either by making a call or accepting an incoming call. The call can then be merged into the Multi-party.

**NOTE:** When making a call or accepting an incoming call the Multi-party call will be placed on hold. The callers in the Multi-party call can continue to communicate with each other while on hold.

## Splitting a Multi-party

You can select an individual from the Multi-party and remove their connection. This enables you to talk privately without the participation of the rest of the Multi-party.

During a Multi-party call:

- 1   to display "Option" in the option area
- 2  
- 3   to select a caller in the Multi-party
- 4   to display "Split" in the option area
- 5  









The selected caller will be split from the Multi-party call and the Multi-party call will be placed on hold (the remaining Multi-party call callers can still communicate).

## Ending Multi-party Calls

You can either select an individual in the Multi-party and end the call or end the entire Multi-party call.



### Ending a Single Connection

During a Multi-party call

- 1   to display "Option" in the option area
- 2   to select a caller in the Multi-party
- 3   to display "End" in the option area
- 4  

### Ending a Multi-party Call

During a Multi-party call:

-   to end all the calls at once

# Phonebook Basics

Phone numbers can be stored in two locations. You can store numbers in the SIM Phonebook (therefore the number of locations, length of name and number of phone numbers are SIM dependant). Alternatively you can store phone numbers in the Mobile Phonebook, this means that if you change the SIM the numbers in the phone are not lost.

## Storing a Number



- 1 phone number
- 2
- 3 select the Phonebook (either SIM or Mobile)
- 4
- 5 The phone number you entered will be displayed, edit the number if necessary
- 6 to enter the phone number
- 7 enter the name – see “Alpha Entry” page 32
- 8
- 9 location number
- 10

## Automatic Location

The phone number can be stored automatically at the first available location. This can be done instead of entering a location number.

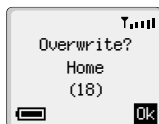
- when “Any” is displayed in the option area of the display



## Overwrite Protection

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















- to overwrite the selected location
- to choose another location number

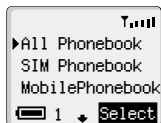


## Browsing Phonebooks by Name or Location

You can search the phonebook by either Name or Location. The default setting for browsing is “Names”. All Phonebook entries will be listed in alphabetical order of both SIM and Mobile Phonebook merged. When browsing by name pressing a lettered key will take you to the first entry starting with that letter.





When “Menu” is displayed in the option area of the display:


- 1   and  to point to “Phonebook”
- 2   and  to point to “Browse”
- 3   to toggle between “Names” and “Loc’ns”
- 4  
- 5   to select the Phonebook you wish to browse
- 6  




## Retrieving a Number







- 1 When in standby:
- 2  
- 3   to browse through the Phonebook

**NOTE:** The Phonebook you last viewed will be the default when you next press . To change the default, use the Phonebook menu to select a particular phonebook.

Once you have selected a phone number or name, there are a number of actions that you can perform. You can dial the selected number by pressing .

# Editing Phonebook Entries

You can View, Recall, Edit, Delete or Create in the Phonebook. To access these features you follow the same procedure. With a phone number or name displayed:

- 1   and scroll between “View”, “Recall”, “Edit”, “Delete” or “Create”
- 2   to select an option

### **View**

Displays an individual phone number and name or names list.

### **Recall**

Displays the phone number, enabling you to either change it or call the number.

### **Edit**

Displays the phone number, allowing you to make changes, followed by the name, enabling you to make changes.

### **Delete**






Deletes the entry from the Phonebook.

### **Create**

Enables you to create a new entry in the Phonebook.




## Speed Dial a Stored Number



- 1  location number – leading zeros may be left out
- 2  
- 3  

## Hot Key Phone Numbers

It is possible to dial phone numbers from the Phonebook or Service Dial part of Phonebook very quickly. Some Hot Key Phone numbers may be reserved by the Service Provider, for example the first three Hot Key Phone numbers may be linked to the Service Dial part of the Phonebook - see page 28. To select a source for the Hot Key phone numbers see “Personalise” – page 39.

**1**   to  and hold

**2**  


# Advanced Phonebook

## Note Pad

During a call you can enter numbers which you may wish to dial when the call has ended.

During a call:

1  phone number

2 When the call has ended press  to call that number

To store in Phonebook, press  while the number is displayed – see “Storing a Number” page 22.

## Recent Numbers



Recently dialled phone numbers will be stored in “Last Dialled”.

If Caller Identification is available the caller’s phone 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 phone number will overwrite the oldest.




1  

2   to point at “Last Dialled”, “Answered” or “Unanswered”

3  

4   to point at the phone number (or name) you wish to dial

5 To store in Phonebook, press  while the number is displayed – see “Storing a Number” page 22.

6  

You can edit or delete the phone number before dialling – see “Editing Phonebook Entries” page 24.







## Calling the Last Dialled Number



To redial your last called phone number   

## Returning an Unanswered Call

When the display shows that you have received calls but not answered them.

- 1  
- 2 The last caller's phone number will be displayed if it is available
- 3   to point at the phone number you wish to dial
- 4  

## 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 phone numbers that are in the Fixed Dial Store.



When Fixed Dial is switched on any manually dialled phone numbers must match a phone number in the Fixed Dial Store.

To store, edit or delete a phone number in the Fixed Dial Store "Fixed Dial" must be switched on – see "Security" page 36. With Fixed Dial switched on, all phone numbers can be added, edited or deleted as normal, but you will be asked for PIN2 – see "Phone Security" page 15.

### **"Wild" Numbers**





Wild numbers are spaces that can be stored in a phone number. The "wild" numbers must be filled before the phone number is dialled. In this way a call can be restricted to a specific area by storing the area code of a phone and when recalled the remainder can be added. The "wild" numbers can be anywhere within a stored phone number.



- 1   and hold until "\_" appears to enter a wild number
- 2 When the phone number is recalled pressing a numeric key will fill in a "wild" number.

### Service Dial

Your Service Provider may program some special phone numbers into your SIM. It is not possible to modify the Service Dial numbers.

- 1   and hold
- 2   to browse through the Service Dial list of phone numbers

The phone number pointed to can only be recalled or dialled.



# Short Text Messages

You can receive, display, edit and/or send short text messages, of up to 160 characters to mobile phones on the same network or any network that has a roaming agreement.

## Setting your Phone for Short Text Messages

Before you can send a message you must enter the Message Centre number into Parameters (your Service Provider will supply the Message Centre number).

**NOTE:** The Message Centre number may have been preprogrammed, on your SIM card

### Setting the Message Centre Number

When “Menu” is displayed in the option area of the display:

- 1 and to point to “Messages”
- 2 and to point to “Parameters”
- 3 and to point to “Message Centre”
- 4
- 5 and hold until a “+” appears
- 6 country code or to scroll through the abbreviated international names – see “International Dialling” page 9
- 7 message centre number (including area code)
- 8

**NOTE:** If you do not include the international access code, you will not be able to send or receive Short Text Messages.

## Sending a Short Text Message



When “Menu” is displayed in the option area of the display:

- 1 and to point to “Messages”
- 2 and to point to “Create”
- 3 enter the message (up to 160 characters) – see “Alpha Entry” page 32.
- 4




## Short Text Messages

You will be asked if you wish to send the message, if you do not wish to send the message press **C**, the message will be stored.

- 5  **C**, enter the destination phone number (or recall a number from the Phonebook) - see “Retrieving a Number” page 23
- 6  **C** twice
- 7 You maybe asked if you wish to have delivery confirmation, if you want confirmation press **C**
- 8 If you do not, use **0** to indicate “No”, then press **C**






## Receiving Short Text Messages

When a Short Text Message is sent to your phone the message indicator () will flash in the display, with an audible tone or vibration alert. This indicates that a new message has been received.



If the message indicator appears constantly in the display this indicates that the message area is full and you will need to delete old messages in order to be able to receive new messages in the future.

When “Menu” is displayed in the option area of the display:

- 1  **C** and **0** to point to “Messages”
- 2  **C** and **0** to point to “Receive List”
- 3  **C** and **0** to scroll to the message
- 4  **C** to read the message
- 5 To delete the message use **0** to select “Delete”
- 6  **C** twice

## Reading a Short Text Message



To read the message press **C** when “Read” is displayed in the option area.

















## Cell Broadcasts

Cell broadcasts are general information that is sent to your phone by a network operator. The information can be district traffic or weather.

### **Selecting Broadcast Topics**












You need to specify the topic(s) of information that you wish to receive as broadcasts before you can receive them.

When “Menu” is displayed in the option area of the display:

- 1   and  to point to “Messages”
- 2   and  to point to “Broadcasts”
- 3   and  to point to “Topics”
- 4  
- 5   and  to select a Topic
- 6   twice to insert the Topic into your broadcast list

### **Enabling/Disabling Broadcasts**










When “Menu” is displayed in the option area of the display:

- 1   and  to point to “Messages”
- 2   and  to point to “Broadcasts”
- 3   and  to point to “Receive”
- 4  


Once broadcasts have been enabled, the same procedure will disable broadcasts.

# Alpha Entry




Alpha Entry is used to enter alphanumeric characters into Phonebook, Short Text Messages, Price Per Unit and the Greeting Message.

Key	Character entry type		
	Normal (ABC)	Greek (ΑΒΓ)	Extended (ΑΆΆ)
	Space"@,,:;!;?¿( )[]{}&%+~/^~ <>=_£\$¥¤§		
	ABCabc		ΑΆΆÆΒΒÇçαάãæàè
	DEFdef		ΔΕΈFdeèèf
	GHIghi		GHÌghìi
	JKLjkl		JKLjkl
	MNOmno		MNÑOÖØmnñooøò
	PQRSpqrs		PQRSpqrsß
	TUVtuv		TUÜVtuüùv
	WXYZwxyz		WXYZwxyz




Each time a key is pressed in quick succession it will display the next character available on that key (or if the key is pressed and held down it will cycle through the available characters). Releasing the key, or pressing another key will enter the currently displayed character and the cursor will move to the next position.

To access the different character types, normal (ABC), numerals (0–9), Greek characters (ΑΒΓ) and extended characters (ΑΆΆ) press .


## Editing Alpha Entry

Pressing  will move you up or down one line. Pressing  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  will delete the character to the left of the cursor or delete the current line when pressed and held.

# Menu Structures

When the word “Menu” is in the option area of the display pressing the  will display a menu of phone 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  repeatedly.

During a call a restricted menu will be available.

**NOTE:** Any feature that does not appear with it’s corresponding menu structure has already been detailed earlier in this manual.

## Key Guard

For instructions on “Key Guard” – see page 12.

## Phonebook

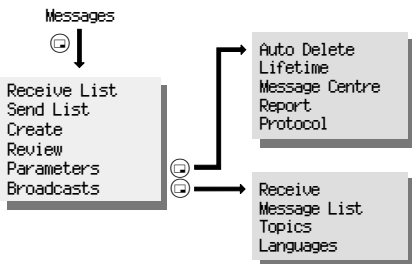


Most common use of the Phonebook is covered in “Phonebook Basics” – see page 22.

*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 phone number(s) can be stored and viewed.

# Messages



Most common use of the Messages is covered in “Short Text Messages” – see page 29

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 phone number in quotation marks (“ ”), pressing dials the phone number or pressing stores the phone number in the Phonebook.

When a message has been sent or edited it will be stored in the *Send List*. *Review* allows you to check usage of the message area.

## Parameters

The *Parameters* are necessary for receiving or sending message.

*Auto Delete* will erase messages automatically. When “Received Read” is selected, a new message will overwrite the oldest read message. When “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 Lifetime expires.

When your message has been delivered a confirmation can be received if *Report* is set to “Yes”.

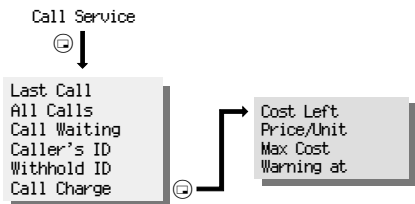
The *Message Centre* may be able to convert the message to the format specified by *Protocol*.

## Broadcasts

The *Message List* will display the last received broadcast messages.

The *Language* in which broadcast messages are displayed can be changed.

## 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), seconds (0-59) - HH:MM:SS.

*All Calls* displays the accumulated duration and call charge, if available, of incoming and outgoing calls. The lock code or 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 phone must be registered with a network.

*Caller's ID* allows you to check the status of Caller's Identification. The phone must be registered with a network.

Using *Withhold ID* it is possible to check if you send Caller's Identification information when you make a call. When checking the Status of Withhold ID the phone must be registered with a network.

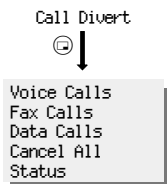
*Call Charge* will set the cost of each unit for call charge information and the required currency in which call charge is displayed.

Using *Max Cost* can restrict use of the phone to a specified number of units.

## Menu Structures

**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.

## Call Divert

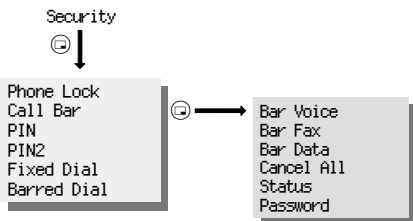


When *Call Divert* is enabled the divert icon (↪) is displayed.

You can divert voice, fax and data calls using different circumstances and to different phone numbers.

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

## Security



Most common uses of Security are detailed in “Phone Security” - see page 15

*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 phone 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.



With *Fixed Dial* switched on you can only make calls with the phone numbers stored in Fixed Dial area of the Phonebook – see “Fixed Dial” page 27. Emergency calls can be made at any time. To use this function PIN2 is required.

*Barred Dial* enables you to bar all phone numbers from being dialled on the phone. To use this function PIN2 is required.

## 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.

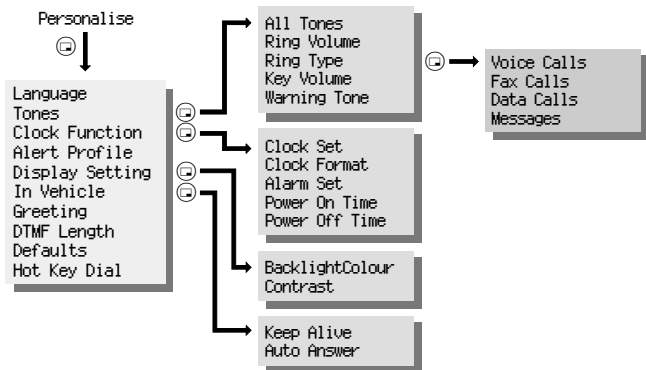
*New Network* is used to manually select a network that is available in your current location.

When the *Search Mode* is set to “Automatic” the phone will automatically reselect a new network in order to maintain optimum network availability. While the Search Mode is set to “Manual” the phone will only use a selected network. If coverage is lost another network should be selected.

The *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.

# Personalise



The *Language* that the phone will use for display messages can be changed.

In *Tones*, the phone key, ring and warning tones (except low battery warning), can be switched off. When *All Tones* are switched off the silent indicator (🔇) is displayed.

A different *Ring Type* can be used for voice, fax, data and messages. There is a selection of 6 tones and 14 melodies.

*Display Setting* allows the colour and the contrast of the display to be changed.

When the phone is mounted in the optional Car Mount Kit and the vehicle ignition is turned off the *In Vehicle - Keep Alive* timer will start, delaying the switching off of the phone. If the ignition is turned off during a call, the call will be maintained; when the call ends the timer will continue, or the phone will be switched off if the timer has expired. If the delay timer expires during a call, the call will still be maintained. If the phone is removed from the Car Mount Kit during the specified delay time, the timer will be canceled and the phone will not be turned off.

When *Auto Answer* is switched on, and the phone is mounted in the optional Car Mount Kit or Personal Handsfree Adaptor, a call will be answered without pressing any keys.

A personalised *Greeting* can be programmed for when the phone is switched on – see “Alpha Entry” page 32.

The duration of DTMF tones that are played during pause dial can be changed from short and long in *DTMF Length*.

*Defaults* will return your Personal Settings to their factory default, except the Phone Lock code and language.

The source for the Hot Key phone numbers can be set using the *Hot Key Dial* menu.

## Care and Maintenance



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



Extreme temperatures may have a temporary effect on the operation of your phone. 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.



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°C and +35°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.

## Glossary of Terms

DTMF Tones	Dual Tone Multi-Frequency tones allow you to communicate with computerized phone systems, voice mailboxes etc.
GSM	Global System for Mobile Communications. The name given to the advanced digital technology that your phone uses.
Home country	The country where your home network operates.
Home network	The GSM network on which your subscription details are held.
Network Operator	The organization responsible for operating a GSM network.
Password	Used for the control of the Call Bar. Supplied by your Service Provider.
PIN	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.
PIN2	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.
PUK/ PUK2	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.

## Glossary of Terms


Registration	The act of locking on to a GSM network. This is usually performed automatically by your phone.
Roaming	The ability to use your phone on networks other than your Home network.
Service Provider	The organization responsible for providing access to the GSM network.
SIM	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.

# Trouble Shooting

Should any problem persist contact your dealer.

Problem	Cause	Remedy
Telephone will not switch on.		Check that the Battery Pack is fully charged and correctly connected to the phone.
Extremely short battery life for a new battery pack.	The network you are using and the condition of the battery pack can affect battery life.	
Short battery life for an old battery pack.	The battery pack was worn out.	Replace with a new one.
The phone cannot be switched on when charging	When the Battery Pack has been deeply discharged the phone will take a short time to detect which type of Battery Pack it is charging	Leave the phone charging the Battery Pack for a few minutes before attempting to switch it on.
Calls cannot be made.	The phone is locked.	Unlock the phone (Menu: Security: Phone Lock)
	Outgoing calls are barred.	Disable the outgoing call barring, or barred dial (Menu: Security: Call Bar/Barred Dial)
	The phone is not registered to a network.	Move to a coverage area and operate your phone after it has registered with a network.

## Trouble Shooting

Calls cannot be made from Fixed Dial Store		Check your SIM supports Fixed Dial. Check if the Fixed Dial is switched on (Menu: Security: Fixed Dial). Check the phone number is stored in the Fixed Dial.
Calls cannot be received.	The phone is not switched on.	Switch the phone on.
	Incoming calls are barred.	Disable the incoming call barring (Menu: Security: Call Bar)
	The phone is not registered to a network.	Move to a coverage area and operate your phone after it has registered with a network.
Emergency calls cannot be made.	You are not in a GSM coverage area.	Check that the antenna symbol  is displayed. Move to a coverage area and operate your phone when the antenna symbol is displayed.
Telephone numbers cannot be recalled.	The phone is locked.	Unlock the phone (Menu: Security: Phone Lock)
	Fixed Dial is switched on.	Switch off Fixed Dial (Menu: Security: Fixed Dial)



# Important Error Messages

Area not Allowed	Roaming in the selected area is not allowed.
Network not Allowed	Roaming with the selected network is not allowed.
Security Failure	The network has detected authentication failure because your SIM is not registered with that network. Contact your Service Provider.
SIM Blocked	The SIM is blocked because the wrong PUK has been entered ten times. Contact your Service Provider.
SIM Error	The phone has detected a problem with the SIM. Switch the phone off and then back on. If the message does not disappear contact your Service Provider.
Message Rejected Store Full	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)
PIN2 Invalidated	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.
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 phone off and then on again.

# Specifications

### Telephone

Type	GSM900 Class 4 GSM1800 Class 1
Temperature range	
Charging	+5°C to +35°C
Storage	-20°C to +60°C

### Battery – Attached to phone

	Battery Pack (S)
Weight	88g
Dimensions Height x Width x Depth	118 x 42 x 16.5mm
Supply Voltage	3.7V DC, 650mAh Li-Ion
Standby time (h)	Up to 95
Talk Time (h)	3.3
Charge Time (min)	100

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



BULL CP8 PATENT

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# EU Warranty

EU/EEA-Wide guarantee is applicable in the EU/EEA and Switzerland.

## Panasonic GSM European Service Guarantee Conditions

### Dear Customer,

Thank you for buying this Panasonic digital cellular telephone. The Panasonic GSM European Service Guarantee only applies while traveling in countries other than where the product was purchased. Your local guarantee is applicable in all other cases. If your Panasonic GSM telephone requires service while abroad, please contact the local service company shown on this document.

### The Guarantee

The applicable period of the European wide guarantee for GSM is generally 12 months for the main body and 3 months for the rechargeable battery. With respect to a product used in a country other than a country of purchase, notwithstanding what is stated in the conditions below, the customer will benefit, in that country of use, from these guarantee periods of, respectively, 12 and 3 months, if these conditions are more favorable to him than the local guarantee conditions applicable in such country of use.

### Conditions of Guarantee

When requesting guarantee service the purchaser should present the warranty card together with proof of purchase, to an authorized service centre.

The guarantee covers breakdowns due to manufacturing or design faults; it does not apply to other events such as accidental damage, however caused, wear and tear, negligence, adjustment, modification or repair not authorized by us.

Your sole and exclusive remedy under this guarantee against us is the repair, or at our option the replacement, of the product, or any defective part or parts. No other remedy, including, but not limited to, incidental or consequential damage or loss of whatsoever nature shall be available to the purchaser.

This is in addition to and does not in any way affect any statutory or other rights of consumer purchasers. This guarantee applies in countries shown on this document at the authorized service centres detailed for that country.

## UK

Service Centres in the UK  
Tel. +44 990 159159

## D

Panasonic Service Center Dresden  
SERKO GmbH  
Großenhainer Straße 163  
01129 Dresden  
Tel. +49 (0)351/ 85 88 477

Panasonic Service Center Cottbus  
Petsch Kundendienst GmbH  
Am Seegraben 21  
03058 Gross-Gaglow  
Tel. +49 (0)355/ 58 36 36

Panasonic Service Center Leipzig  
KES Keilitz-Electronic-Service GmbH  
Föpplstraße 19  
04347 Leipzig  
Tel. +49 (0)341/ 244 33 33

Panasonic Service Center Chemnitz  
WPS Rundfunk- u. Fernsehservice GmbH  
Zietenstraße 16  
09130 Chemnitz  
Tel. +49 (0)371/ 40 10 359

Panasonic Service Center Berlin  
SERKO GmbH  
Schwedter Straße 34a  
10435 Berlin  
Tel. +49 (0)30/ 44 30 3221

Panasonic Service Center Berlin  
RUESS SYSTEMS  
Thrasoltstraße 11  
10585 Berlin  
Tel. +49 (0)30/ 342 2013

Panasonic Service Center Rostock  
warnow electronic service gmbh  
An der Jägerbäk 2  
18069 Rostock  
Tel. +49 (0)381/ 82 016

Panasonic Service Center Hamburg  
ELVICE Service GmbH  
Spaldingstraße 74  
20097 Hamburg  
Tel. +49 (0)40/ 23 08 07

Panasonic Service Center Rendsburg  
FERNSEH-DIENST B&W Service GmbH  
Kieler Straße 41  
24768 Rendsburg  
Tel. +49 (0)431/ 14 11-0

Panasonic Service Center Bremen  
COM Elektronik Service GmbH  
Rübekamp 50  
28219 Bremen  
Tel. +49 (0)421/ 691 80 69

Panasonic Service Center Hannover  
COM Elektronik Service GmbH  
Vahrenwalder Straße 311  
30179 Hannover  
Tel. +49 (0)511/ 37 27 91

## EU Warranty

Panasonic Service Center Magdeburg  
SERKO GmbH  
Ebendorfer Chaussee 47  
39128 Magdeburg  
Tel. +49 (0)391/ 289 90 69

Panasonic Service Center Düsseldorf  
VTH GmbH  
Kölner Straße 147  
40227 Düsseldorf  
Tel. +49 (0)211/ 77 90 25

Panasonic Service Center Essen  
Bernd van Bevern GmbH  
Heinrich-Held-Straße 16  
45133 Essen  
Tel. +49 (0)201/ 84 20 220

Panasonic Service Center Osnabrück  
Petsch Kundendienst GmbH  
Pagenstecherstraße 75  
49090 Osnabrück  
Tel. +49 (0) 541/ 68 038

Panasonic Service Center Wiesbaden  
J. Hemmerling - VAD GmbH  
Ostring 7  
65205 Wiesbaden  
Tel. +49 (0)6122/ 90 91 10

Panasonic Service Center Mannheim  
N. Schaaf  
Reichenbachstraße 21-23  
68309 Mannheim  
Tel. +49 (0)621/ 72 787-0

Panasonic Service Center Stuttgart  
Hans Beck  
Friedrich-List-Straße 38  
70771 Leinfelden-Echterdingen  
Tel. +49 (0) 711/ 94 701-0

Panasonic Service Center Reutlingen  
Herbert Geissler  
Lichtensteinstraße 75  
72770 Reutlingen  
Tel. +49 (0)7072 / 92 96-0

Panasonic Service Center München  
G.Berghofer & W.Kaller GmbH  
Helene-Wessel-Bogen 7  
80939 München  
Tel. +49 (0)89/ 318 907-0

Panasonic Service Center Augsburg  
Klaus Bienek  
Affinger Straße 4  
86167 Augsburg  
Tel. +49 (0)821/ 70 70 75

Panasonic Service Center Nürnberg  
Herbert Geissler GmbH  
Friedrich-Ebert-Straße 21  
90537 Feucht  
Tel. +49 (0)9128/ 70 76-0

Panasonic Service Center Eisenach  
Blitz Elektro-Elektronik-GmbH  
Bahnhofstraße 17  
99817 Eisenach  
Tel. +49 (0)3691/ 29 29 42 8

## A

Service-Zentren in Österreich

Funk Fuchs GmbH & CoKg Unterhart 90  
4642 Sattledt  
Tel. +43 7244 733

Funktechnik Seissl  
Dorf 79  
6330 Schwoich  
Tel. +43 5372 8217

Elektro Oberndorfer  
Linzer Straße 2-4  
4840 Vöcklabruck  
Tel. +43 7672 72889

Panasonic Austria Handelsges.mbH  
Laxenburger Straße 252  
1232 Wien  
Tel. +43 222/61080

## FR

Centres de service après-vente en France

ASTELCOM  
75 quai de Seine  
75019 - Paris  
Tél.: +33 01 42 09 95 16

ELECTRONIQUE SERVICE av. Figuières  
ZAC Font de la Banquière 34970 - Lattes  
Tél.: +33 04 67 15 96 30

DMF ELECTRONIQUE  
24 rue de l'Economie  
69500 - Lyon-Bron  
Tél.: +33 04 72 37 16 27

S.T.E.  
3 chemin de l'Industrie  
06110 - Le Cannet Rocheville Tél.: +33 04  
93 46 05 00

LAPUCE  
31 rue des Teinturiers  
14300 - Caen  
Tél.: +33 02 31 86 64 51

S.T.R.A.  
15 bis rue du Pré La Reine 63100 -  
Clermont-Ferrand  
Tél.: +33 04 73 92 01 40

CLINIC VIDEO  
1 bis rue de Beauvais  
56100 - Lorient  
Tél.: +33 02 97 21 06 07

BEAUGENDRE  
8 bis  
rue du Pré du Bois/ZI de Chantpie  
35500 - Rennes  
Tél.: +33 99 50 24 14

CETELEC  
6 impasse du pétrole  
13015 Marseille  
Tél.: +33 02 91 02 17 17

SETELEC  
23 rue du Châtelet  
76420 - Bihorel Les Rouens Tél.: +33 02 35  
60 64 39

## ELECTROTECH

2 bd Alexandre 1er de Yougoslavie  
21000 - Dijon  
Tél.: +33 03 80 56 18 09

## TELEMAN

4 rue du 19 mars 1962  
38320 - Eybens  
Tél.: +33 04 76 25 50 20

## TECHNIC COLOR

ZI Thibaut  
15 rue Boudeville  
31084 - Toulouse cedex  
Tél.: +33 05 61 40 32 32

## ELECTRONIQUE SERVICE+ 5, bd Louis XI,

ZI Menneton,  
37000 - Tours  
Tél.: +33 02 47 36 43 43

## SAVLOR

33, av. du Général De Gaulle,  
54280 - Seichamps  
Tél.: +83 02 20 82 82

## TEVISO

ZA de Terrefort B.P. 71  
33520 - Bruges  
Tél.: +33 05 56 28 96 36

## M.R.T.

74 rue Albert Einstein  
ZI Nord  
72021 - Le Mans cedex  
Tél.: +33 02 43 28 52 20

## EUROTECHNIC

3 rue Niepce  
ZA Les Garennes  
78130 - Les Mureaux  
Tél.: +33 02 34 92 02 40

## A.A.V.I Centre de gros

1 rue du Mont de Terre  
59818 - Lesquin  
Tél.: +33 03 20 62 18 98

## SID ELECTRONIQUE

95 - 97 avenue Roger Salengro  
13003 - Marseille  
Tél.: +33 04 91 50 52 54

## I.T.V.S.

Village du petit chatelier  
359 Route de Ste-Luce  
44301 NANTES  
Tél.: +33 02 51 89 18 10

## N.T.M.

40 Bd Bessières  
75017 PARIS  
Tél.: +33 01 40 29 60 04

## S.T.A.V.

14 Rue dessaix  
67450 MUNDOLSHEIM  
Tél.: +33 03 88 20 43 30

## NL

Service-centra in  
Nederlands

Panasonic-Centre Nederland  
(Servicom bv)  
P.O Box 16280  
2500 BG  
Den-Haag  
Nederland  
Tel. +31 703314314

Zonweg 60  
2516 BM  
Den-Haag  
Nederland  
Tel. +31 703314314

## I

Centri Assistenza in Italia

AD Service  
Via Strada Calvani, 27/31  
Bari  
Tel. +39 080/5020006

CLEVER s.r.l  
Via Bardazzi, 56/58  
Firenze  
Tel. +39 055/434948

SI.TEL. s.r.l  
C.so Europa, 186/A  
Genova  
Tel. +39 010/391460

VIDEOPACINI  
Via Pacini, 67  
Milano  
Tel. +39 02/2367167

S.B.F. Elettronica  
Via Cumana, 19/A  
Napoli  
Tel. +39 081/2395663

SARTORI  
Via Maroncelli, 94  
Padova  
Tel. +39 049/772188

SERVICE MESSINA  
Via Borremans, 29  
Palermo  
Tel. +39 091/227715

H.T.S. s.r.l  
Via Lanfranco, 8  
Parma  
Tel. +39 0521/294589

PANASERVICE s.r.l  
Lgo Salinari 8/12  
Roma  
Tel. +39 06/5403864

T.E.R. s.n.c  
Via Cuniberti, 58/H  
Torino  
Tel. +39 011/4551987

## EU Warranty

### E

Centros de Servicio en España  
PANASONIC SALES SPAIN, S.A. (S.T.R.)  
Clara del REY, 8 Lateral  
28002 Madrid  
Tel. +34 91 519 91 40

ZENER ELECTRONICA  
Orillamar, 65 Bajo  
15002 La Coruña  
Tel. +34 981 22 07 00

ELECTRONICA MILLAN, S.L.  
Natalia, 6  
29009 Málaga  
Tel. +34 95 227 39 87

TECNOLEC, S.A  
Pinar del Río, 48 - 50  
08027 Barcelona  
Tel. +34 93 340 87 53

S.T.R. BROADCAST  
Av. Zuberoa, 12  
48012 Bilbao  
Tel. +34 94 410 00 23

LAVISON, C.B.  
Montseny, 35  
17005 Girona  
Tel. +34 972 23 01 22

IRTESA ELECTRONICA  
Jaume Ferran, 72  
07004 Palma de Mallorca  
Tel. +34 971 20 47 02

PANASONIC SALES SPAIN, S.A. (S.T.R.)  
Asunción, 27  
41011 Sevilla  
Tel. +34 95 427 54 04

PANASONIC SALES SPAIN, S.A. (S.T.R.)  
Alberique, 33  
46008 Valencia  
Tel. +34 96 385 76 31

### DK

For nærmeste servicecenter ring Panasonic  
Danmark  
Tel. +45 43 20 08 50

### N

Servicesenter i Norge  
Norsk Elektronikkcenter  
Fetveien 1  
2007 Kjeller  
Tlf: +47 63 80 45 00

Tele Engineering AS  
Postboks 812  
3007 Drammen  
Tlf: +47 32 84 14 40

Panasonic Norge AS  
Østre Aker vei 22  
0508 Oslo  
Tlf: +47 22 91 68 00

### S

Firmor i Sverige  
Komrep  
Rosenlundsgatan 4  
411 20 Göteborg  
Tel. +46 031-173354

Signalstyrkan  
Kungsholmstorg 4  
104 22 Stockholm  
Tel. +46 08-6542500

CR service  
Industribyn 3  
232 37 Malmö  
Tel. +46 040-430030

### SF

Huoltokeskukset seuraavissa Maissa:  
KAUKOMARKKINAT OY  
PANASONIC-HUOLLLOT Kutojantie 4  
02630 Espoo  
Puh. +358 09 521 5151 Huolto  
Puh. +358 09 521 5155 Varaosat Ja  
Tarvikkeet

SETELE OY  
Vanha Viertotie 7  
00300 Helsinki  
Puh. +358 09 549100

PLAY-SHOP SERVICE Keskuskatu 3  
00100 Helsinki  
Puh. +358 09 27053626

MEGAFIX KY  
Louhenkatu 9  
74100 Iisalmi  
Puh. +358 017 14631

T: MI.M.HAAPOJA  
Miilukatu 7  
40320 Jyväskylä  
Puh. +358 014 677121

OUTOKUMMUN PUHELIN  
Pohjoisahonkatu 9  
83500 Outokumpu  
Puh. +358 013 562211

SETELE OY  
Rengastie 31  
60100 Seinäjoki  
Puh. +358 06 4148344

TURUN J-MARKKINAT OY Tuureporinkatu  
6  
20100 Turku  
Puh. + 358 02 2332685

**GR**

Κέντρα Σέρβις στην Ελλάδα

INTERTECH S.A. International  
Technologies 126 Sygrou Ave.  
17671 Kallithea  
Tel. +30-1-9248300

INTERTECH S.A. International  
Technologies Northern Greece Branch  
Office 26 Gr.Labraki & 145 Egnatia Ave.  
54638 Salonika  
GREECE  
Tel. +30-31-245840

**P**

Centros de Assistência em Portugal

PAPELACO, S.A.  
Vale Paraiso - Ferreiras  
8200 ALBUFEIRA  
ALGARVE  
Tel. +351 89 589960

PAPELACO, S.A.  
Largo de Santos, 9  
1200 LISBOA  
Tel. +351 1 3970539

PAPELACO, S.A.  
Largo do Tribunal, Lote 11  
2400 LEIRIA  
Tel. +351 44 28071

PAPELACO, S.A.  
Rua Cidade de Santos, 31R/C  
9000 FUNCHAL  
MADEIRA  
Tel. +351 91 231523

PAPELACO, S.A.  
Rua do Outeiro,  
Lote 25 - Gemunde  
4470 MAIA  
PORTO  
Tel. +351 2 944 0354/9

PAPELACO, S.A.  
Rua Major Leopoldo da Silva,  
Lote 3  
3500 VISEU  
Tel. +351 32 424771

**B**

Centres de service après-vente en Belgique

BROOThAERS  
Hoevelei 167  
2630 AARTSELAAR  
Tel. +32 03/887 06 24

HENROTTE  
Rue du Campnaire 154  
6240 FARCIENNES  
Tel. +32 071/39 62 90

PIXEL VIDEOTECH  
Rue St Remy 7  
4000 LIEGE  
Tel. +32 041/23 46 26

DELTA ELECTRONICS  
Rue P.d'Alouette 39  
5100 NANINNE  
Tel. +32 081/40 21 67

ELEKSERVICE FEYS Houthulstseweg 56  
8920 POELKAPELLE  
Tel. + 32 057/48 96 37

AVS WAASLAND Lavendelstraat 113  
9100 ST NIKLAAS  
Tel. +32 03/777 99 64

A.V.T.C SA  
Kleine Winkellaan 54  
1853 STROMBEEK-BEVER Tel. + 32  
02/267 40 19

RADIO RESEARCH  
Rue des Carmélites 123  
1180 BRUXELLES  
Tel. +32 02/345 68 56

VIDEO TECHNICAL SERVICE  
Av. du Roi Albert 207  
1080 BRUXELLES  
Tel. +32 02/465 33 10

SERVICE CENTER Kapellestraat 95  
9800 DEINZE  
Tel. +32 09/386 76 67

TOP SERVICE  
Westerloseweg 10  
2440 GEEL  
Tel. +32 014/54 76 24

TELECTRO SC  
Quai des Ardennes 50  
4020 Liège  
Tel. +32 041/43 29 04

**L**

Centres de service après-vente au Luxembourg

NOUVELLE CENTRAL RADIO  
Rue des Jones 15  
L - 1818 Howald  
Luxembourg - Grand Duché  
Tel. +32 40 40 78

**CH**

Jonh Lay Electronics AG  
Littauerboden  
6014 Littau  
Phone: +41 41 259 9090 Fax: +41 41 252  
0202

Nova-Funk Technik AG  
Neuenkirchstr. 18c  
6020 Emmenbrüche  
Phone: +41 41 280 9292 Fax: +41 41 280  
9294

Bindschädler Marc  
Radio-TV  
Zürichstr. 123c  
8123 Ebmatingen  
Phone: +41 01 980 3040 Fax: +41 01 980  
4321

## EU Warranty

### TR

TEKOFAKS ISTANBUL CENTRE OFFICE  
KAGITHANE CADDESİ SEVİLEN SOKAK  
NO. 58 80340 ÇAĞLAYAN-İSTANBUL  
Tel: 90-212-220 60 70 / 14 Lines  
Fax: 90-212-220-60 94

ANKARA BRANCH OFFICE  
GÜVEN MAH.FARABI SOKAK NO: 38/6  
06690 KAVAKLIDERE- ANKARA  
Tel: 90-312-467 30 94/2 Lines pbx  
Fax: 90-312 467 85 38

İSMİR BRANCH OFFICE  
CUMHURİYET BULVARI NO:330 K.:6  
D.:608 SEVİL İŞ MERKEZİ 35520

ALSANCAK-İZMİR  
Tel: 90-232-464 29 01 pbx  
Fax: 90-232-422 67 44

BURSA BRANCH OFFICE  
ŞEHREKÜSTÜ MAHLLESİ DURAK  
ÇADDESİ NO.:7 BURSA  
Tel: 90-224-225 10 46 pbx  
Fax: 90-224-223 81 03

ADANA BRANCH OFFICE  
REŞATBEY MAH.FUZULİ CAD.GÜLEK  
SİTESİ A BLOK NO: 75b 01120 ADANA  
Tel: 90-322-458 39 52 pbx  
Fax: 90-322-453 21 32

TRABZON BRANCH OFFICE  
MARAŞ CAD.MARAŞ APT.NO:51 D.:2  
61200 TRABZON  
Tel: 90-462-321 33 08  
Fax: 90-462-326 37 78

ANTALYA BRANCH OFFICE  
ALTINDAĞ MAH. 146 SOKAK ÖZKOÇ  
APT.NO:9/1-2A ANTALYA  
Tel: 90-242-243 23 70 / 3 Lines  
Fax: 90-242-243 23 72

DIYARBAKIR BRANCH OFFICE  
LİSE CADDESİ GÖKALP APT.NO: 18/A  
DIYARBAKIR  
Tel: 90-412-228 73 00  
Fax: 90-412-223 59 00

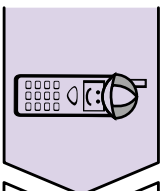


### **EU/EEA-Wide Guarantee: Conditions applicable in any country other than the country of original purchase.**

- A When the purchaser finds the appliance to be defective, he should promptly contact the proper sales company or national distributor in the EU/EEA country where this guarantee is claimed, as indicated in the "Product Service Guide" or the nearest authorized dealer together with this guarantee and proof of date of purchase. The purchaser will then be informed whether:
- (i) the sales company or national distributor will handle the repair service; or
  - (ii) the sales company or national distributor will arrange for trans-shipment of the appliance to the EU/EEA country where the appliance was originally marketed; or
  - (iii) the purchaser may himself send the appliance to the sales company or national distributor in the EU/EEA country where the appliance was originally marketed.
- B If the appliance is a product model which is normally supplied by the sales company or national distributor in the country where it is used by the purchaser, then the appliance, together with this guarantee card and proof of date of purchase, should be returned at the purchaser's risk and expense to such sales company or distributor, which will handle the repair service. In some countries, the affiliated sales company or national distributor will designate dealers or certain service centres to execute the repairs involved.
- C If the appliance is a product model which is not normally supplied in the country where used, or if the appliance's internal or external product characteristics are different from those of the equivalent model in the country where used, the sales company or national distributor may be able to have the guarantee repair service executed by obtaining spare parts from the country where the appliance was originally marketed, or it may be necessary to have the guarantee repair service executed the sales company or national distributor in the country where the appliance was originally marketed. In either case, the purchaser must furnish this guarantee card and proof of date of purchase. Any necessary transportation, both of the appliance and of any spare parts, will be at the purchaser's risk and expense, and there may be a consequent delay in the repair service.
- D Where the consumer sends the appliance for repair to the sales company or national distributor in the country of use of the appliance, the service will be provided on the same local terms and conditions (including the period of guarantee coverage) as prevail for the same model appliance in the country of use, and not the country of initial sale in the EU/EEA. Where the consumer sends the appliance for repair to the sales company or national distributor in the EU/EEA country where the appliance was originally marketed, the repair service will be provided on the local terms and conditions prevailing in the country of initial sale in the EU/EEA.
- E Some product models require adjustment or adaptation for proper performance and safe use in different EU/EEA countries, in accordance with local voltage requirements and safety or other technical standards imposed or recommended by applicable regulations. For certain product models, the cost of such adjustment or adaptation may be substantial and it may be difficult to satisfy local voltage requirements and safety or other technical standards. It is strongly recommended that the purchaser investigates these local technical and safety factors before using the appliance in another EU/EEA country.
- F This guarantee shall not cover the cost of any adjustments or adaptations to meet local voltage requirements and safety or other technical standards. The sales company or national distributor may be in a position to make the necessary adjustments or adaptations to certain product models at the cost of the purchaser. However, for technical reasons it is not possible to adjust or adapt all product models to comply with local voltage requirements and safety or other technical standards. Moreover, where adaptations or adjustments are carried out the performance of the appliance may be affected.
- G If in the opinion of the sales company or national distributor in the country where the appliance is used the purchaser has the necessary adjustments or adaptations to local voltage requirements and technical or safety standards properly made, any subsequent guarantee repair service will be provided as above indicated, provided the purchaser discloses the nature of the adjustment or adaptation if relevant to the repair. (It is recommended that the purchaser should not send adapted or adjusted equipment for repair to the sales company or national distributor in the country where the appliance was originally marketed if the repair relates in any way to the adaptation or adjustment).
- H This guarantee shall only be valid in territories subject to the laws of the European Union and the EEA.

Please keep this guarantee with your receipt.

# Notes



### Answering a Call

any key  
Except

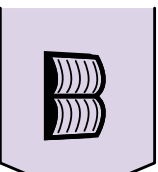


### Ear Volume

during a call



### Emergency Call



### Phonebook Entry

telephone number

to select SIM or Mobile

name

location number

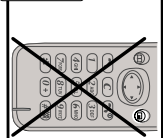


### Phonebook Recall



### Key Guard

"Menu"



### Automatic Redial

when "OK" displayed



### Last Called Number



