A young girl with a headband is looking down at a basket of yellow flowers. The background is a wooden fence.

User's Guide
Cordless Phone
230

ERICSSON 

Cordless Phone 230

DT200 Handset BS230 Base Station

DECT/GAP Digital

User's Guide

Not for Commercial Use
Ericsson Mobile Communications AB

What to read first

This user's guide consists of several sections and topics which can be read individually. You will find each section and topic listed in the table of contents. In addition, the "Index" at the back of this guide shows where to find help on each topic. If you are already familiar with this type of product, the "Quick start" section helps you get the phone up and running quickly. However, for basic use of the phone, you should read the "Getting started" section and "Using the menus" on page 19 in particular. Other parts can be read when needed.

About this user's guide

This user's guide is published by Ericsson Mobile Communications AB, without any warranty. Improvements and changes to this user's guide necessitated by typographical errors, inaccuracies of current information, or changes to programs and/or equipment, may be made by Ericsson Mobile Communications AB at any time and without notice. Such changes will, however, be incorporated into new editions of this user's guide. All rights reserved.

Cordless phone features

- Superb sound quality
- Comfortable, easy-to-use handset
- Large illuminated display
- Phone book for 100 names and numbers
- Advanced calling costs management
- Expandable from 1 to 8 handsets
- Total privacy, no eavesdropping








HANDSET



BASE STATION



HANDSET DISPLAY ICONS AND INDICATORS

	On	Flashing	Flashing quickly
Signal strength 	Visible when connected to a base station		
Ring off 	Ring signal muted or microphone off		
Key 	Keys locked		
Hook 	Handset off hook	Connection being made	Handset is ringing
Message 			New message received by the voice mailbox
Call Info 	New unanswered entry in the who called list		
Battery 	Battery status (4 blocks is fully charged)	Battery casing flashes; battery almost empty	Blocks flash successively; battery is being charged (steady blocks indicate the battery level)
Warning light	Baby phone call interrupted	Warning (battery low/no connection)	Incoming call Message waiting

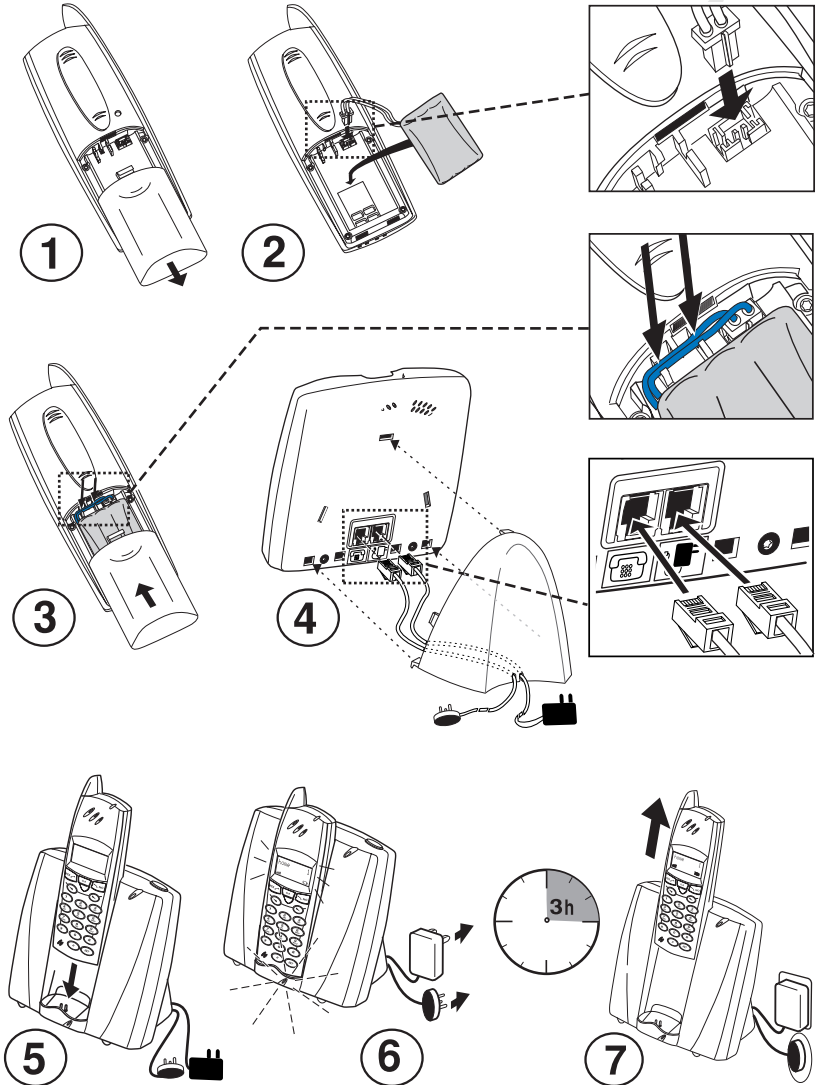
BASE STATIONS INDICATORS

	On	Flashing	Flashing quickly
Red top light	External line occupied	Incoming external call	No external line connection
Green bottom light	Handset battery is being charged		

For further details, please see section "Reference" on page 85 of the user's guide.

QUICK START

This page helps you to get the cordless phone up and running quickly. For a more detailed installation procedure, see "Preparing for use" on page 9. You should read the "Getting started" section afterwards.



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Handset quick reference (inside back cover)

Getting started

WHAT IS IN THE BOX

Make sure that all the parts are in the box. If anything is missing, please contact your dealer.

The box should contain:

1. Base station
2. Desk stand for the base station
3. Wall mounter for the base station
4. Screws and plugs for the wall mounter
5. Handset
6. Battery
7. Clip
8. Power adaptor with cable
9. Telephone line cable
10. User's guide
11. Warranty card

PREPARING FOR USE

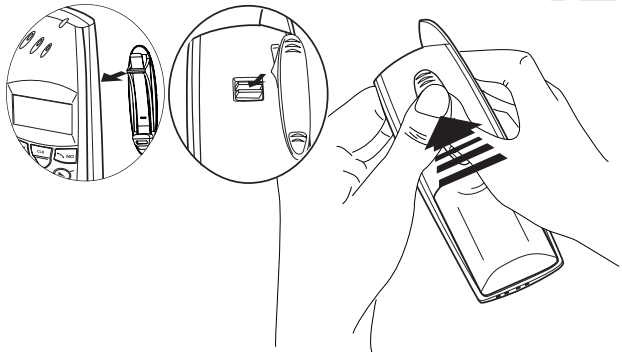
To install the set, follow the steps below. The cordless phone will then be ready for use.

Warnings *Make sure the local mains voltage corresponds to the voltage on the power adaptor.*

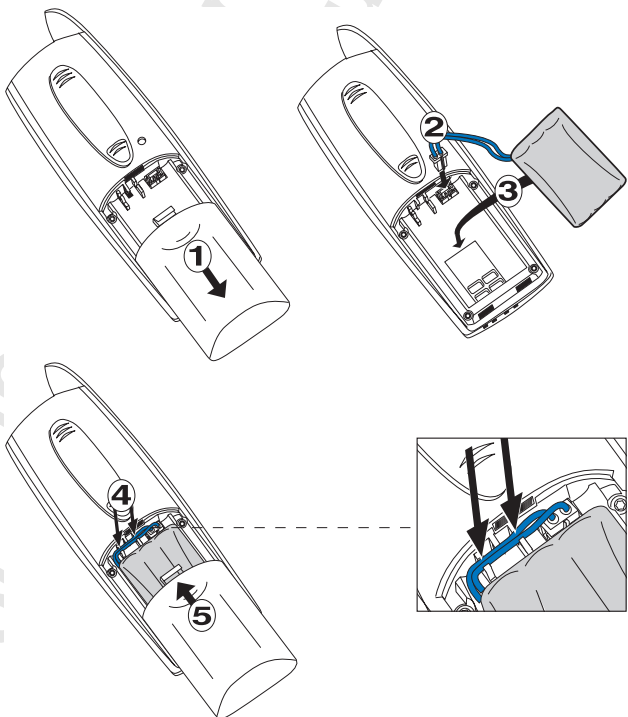
Only use the power adaptor that comes with the set.

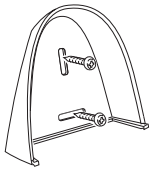
When installing the cordless phone, it is important that you closely follow the procedure below:

1. Attach the clip to the handset.

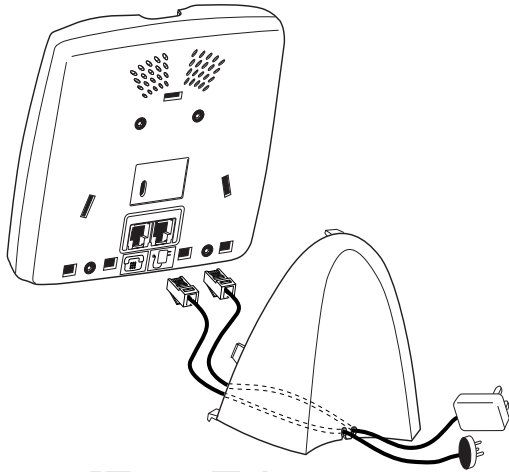


2. Insert the battery in the handset.





3. Find a suitable location for the base station. To make the best use of its operating range, put your base station in a central position. You can place it on a table using the desk stand or mount it on the wall using the wall mounter.
4. If you place the base station on a wall, screw the wall mounter to the wall.



5. Connect the telephone line to the telephone socket in the base station.



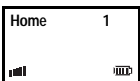
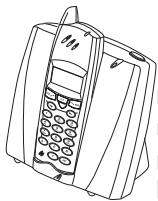
Telephone socket identifier

6. Connect the telephone line to the analogue telephone wall socket.
7. Connect the power cord to the power plug socket in the base station.



Power plug socket identifier

8. Connect the desk stand to the base station or connect the base station to the wall mounter. Put the lower hooks in first.
For the desk stand, route the cables through the slots at the back.
9. Put the handset into the base station as shown in the picture. The handset must be off.
10. Put the power adaptor plug into the wall socket.
If you see a red, flashing light on the top of the base station, there is a fault with the telephone line connection.
After a few minutes the handset will subscribe itself to the base station and turn on automatically.
11. Leave the handset in the base station for at least 3 hours to charge the battery for the first time.



If the handset does not turn on automatically, remove the power adapter plug from the wall socket and repeat from step 9. If that does not help, please refer to “Subscribing handsets” on page 68.

When the battery is charged, the handset is ready for use. For more information about charging the battery, please refer to “Battery” below.

Important

It is important to make a note of the IPEI code. You may need it to reset the handset’s PIN code. Please refer to “Showing the IPEI code” on page 57 for further details.

Note *We also recommend that you change the pin code of the base station directly after installing the cordless phone. See “Changing the base station PIN code” on page 56 for more information. See also “Overview PIN and other codes” on page 58 for the PIN code of the handset and of the base station.*

Operating range

You can use your handset in the area that is covered by the base station. Outside this area, you lose contact with the base station and the signal strength indicator on the display disappears. The warning light flashes and you hear short, fast, warning beeps.

To make best use of the operating range, place your base station in a central position.

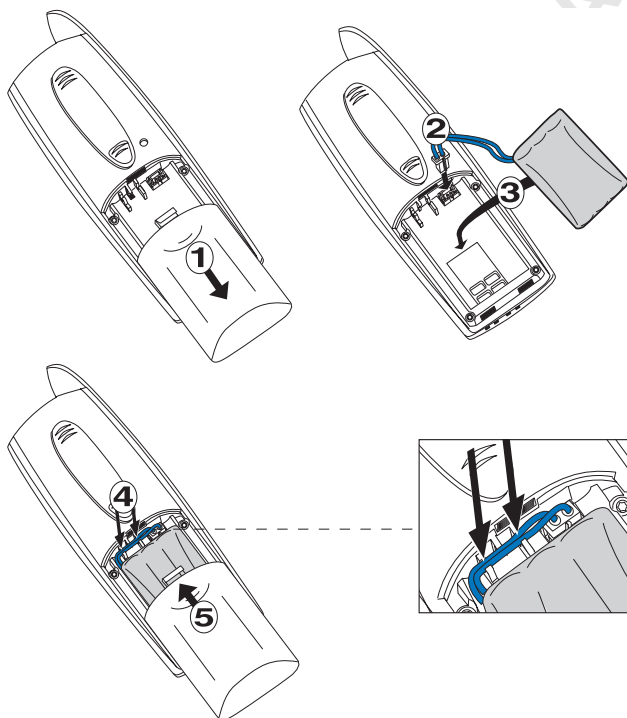
BATTERY

The handset is powered by a rechargeable battery. You can fully charge a flat battery by placing the handset in the base station for 3 hours. A fully charged battery gives you up to 15 hours of calling time or up to 100 hours of standby time. The handset has a battery meter, which indicates you how much power is left in the battery.

Note *The handset is powered by a Nickel Metal Hydride (NiMH) battery. It can be recharged at any time. To keep the battery fully charged, you can put or leave the handset in the base station without any problem.*

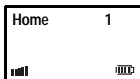
Placing the battery

Place the battery as shown below. Make sure that the battery wires are put through the notches as shown.



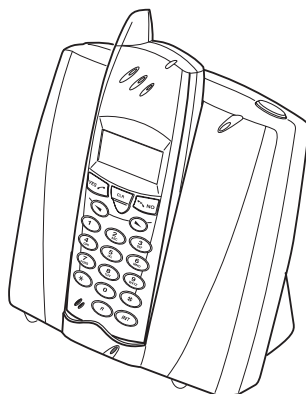
Reading the battery meter

When the battery is fully charged, the battery meter on the handset display consists of four blocks. The number of blocks decreases as the battery discharges. If the battery is almost flat, the battery meter and the red light on the handset flash. An alarm sounds if there is less than 15 minutes' calling time left in the battery.



Charging the battery

Place the handset in the base station as shown in the picture below.



If the lower green light on the base station is on (and the battery meter on the display flashes), the battery is being charged. As soon as the battery is fully charged, the lower green light is turned off and the battery meter on the handset stops flashing.

If the battery is completely flat it can take a few minutes before the lower green light on the base station comes on.

Changing the battery

Rechargeable batteries have a limited lifespan. Under normal conditions, the handset battery will last for at least a year.

If the standby time for the handset becomes too low, you should replace the battery. Please contact your dealer for more information.

Warning *Only use batteries as specified in "Technical specifications" on page 93.*

The battery does not contain cadmium and is therefore more environmentally-friendly than other rechargeable batteries. However, all batteries should be treated as chemical waste.



SWITCHING THE HANDSET ON AND OFF

While the handset is switched on, it is in standby mode. In standby mode, the handset is ready to make or receive calls but consumes less energy. With a fully charged battery, the handset can operate for about 100 hours in standby mode. If you are not using the handset to make or receive calls, you can put the handset in the base station to keep it fully charged.

Switching the handset on

Before you can use the handset you must switch it on:

- Press **NO** for at least one second to switch the handset on.

The standby display appears. The number on the right-hand side is the internal number of the handset on the base station.

After switching on, information is displayed. For more details see “Information on display” on page 18.

Switching the handset off

If you do not want to make or receive calls, you can switch the handset off.

To switch the handset off:

- Press and hold **NO** until the display turns blank.

You cannot turn the handset off during a call.

If the handset is off and you receive an external call, the ring signal on the base station still works. Press **NO** for one second to switch on the handset, then **YES** to receive the call.

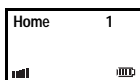
ATTACHING AND REMOVING THE CLIP

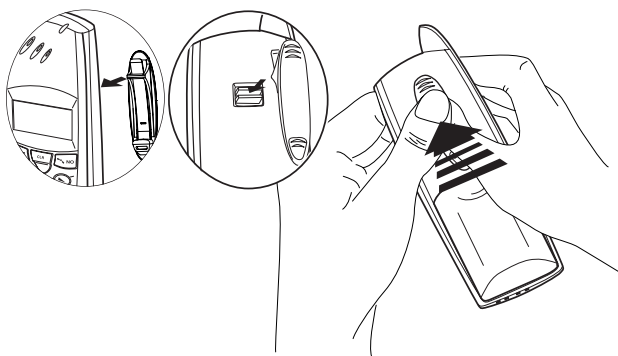
The handset has a clip which you can use to attach the handset to your clothes.

- Attach the clip to the handset. **Do not press on the display!**

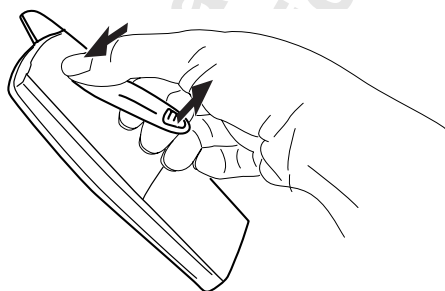
Your handset is now ready for use.

To minimize wear and tear, we recommend that you do not remove the clip from the handset too often. See also the drawings below.





Attaching the clip



Removing the clip

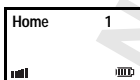
A BRIEF GUIDE

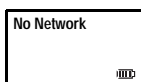
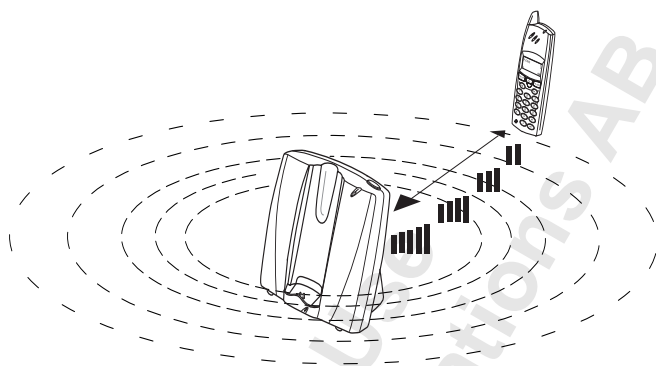
After installing the cordless phone you can now make and receive calls. For initial use, it is assumed that you are near the base station and that the signal strength indicator is visible.

Using the base station

The base station covers an area in which the handset can make and receive calls via a radio connection. To establish a radio connection, your handset requires a subscription to the base station. The name of the base station is displayed on the handset.

If your handset is connected to a base station, this is shown by the signal strength indicator. If the indicator is visible, you can make and receive telephone calls.





If the indicator is not visible, then the handset is not connected to a base station. This may mean:

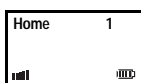
- You are out of range.
Check that the base station is on and that you are within range.
- There is no access to the base station.
The handset is not able to connect or its access rights may have changed. Set the handset to automatic base station selection and if that does not help, subscribe the handset to the base station again.
- There is no subscription to the base station.
Subscribe the handset to the base station.

Please refer to section “Using base stations” on page 77 for further information.

Switching on

Before you can use the handset you must switch it on:

- Press **NO** for at least one second to switch the handset on.
The standby display appears. The number on the right-hand side is the internal number of the handset on the base station.

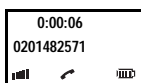


Making a first call

Check that the set is installed correctly by dialling a person you know.

To make a call:

1. Press **YES** and you can hear the dial tone.
A red light appears on the top of the base station.
2. Dial the number you want to call using the number keys.
You hear the ringing tone.
3. Wait for an answer and, on completing your call, ask the person to call you back.



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

The duration of the call is displayed. If available, the costs of the call are also displayed.

For more information about displaying call costs, see “Call tariff” on page 63.

If you dial a number but can still hear the dial tone, you probably have to set the base station to another dialling method. See “Pulse or tone dialling” on page 72 for more details.

Receiving a call

If someone calls you, the handset and the base station ring.

To receive a call:

1. Press **YES** to answer the call.
2. Have a conversation.
3. Press **NO** to end the call.

The duration of the call is displayed. If available, the costs of the call are also displayed.

Switching off

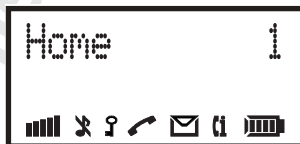
If you do not want to make or receive calls you can switch the handset off.

To switch the handset off:

- Press and hold **NO** until the display turns blank. The ring signal on the base station continues to work even if you switch off the handset.

INFORMATION ON DISPLAY

After switching on the handset, the display may show several icons and other information.

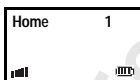


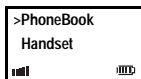
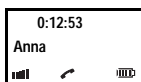
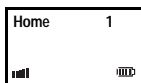
Signal strength

A signal strength indicator is shown on the left-hand side of the display when the handset is connected to a base station. It is a measure of reception quality. Five vertical bars means good reception quality and no bars means no connection. In areas where the reception quality is poor, you risk losing calls.

Base station name

The name of the currently-connected base station is displayed when the handset is on standby. The default base station name is **Home** but you can set the





base station name yourself. This is described in “Editing base station name” on page 81.

Extension number

Your internal number is shown on the right-hand side of the display when the handset is on standby. The internal number may not be shown when the handset is connected to another type of base station.

Call information

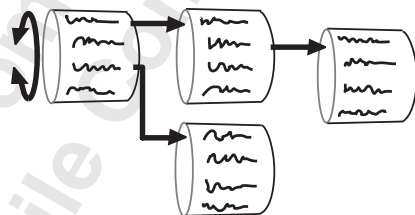
When the handset rings, the type of call is displayed.

Call costs or duration

During a call, the handset displays the duration of the call. The display also shows call costs at the end of the call, if a call tariff and metering pulses are available. For more details, see “Call tariff” on page 63.

USING THE MENUS

The handset can be operated via menus. For instance, you can enter the main menu option **PhoneBook** by pressing either the **UP** or the **DOWN** key. Press the **UP** or **DOWN** key again to scroll through other options. Press **YES** to confirm an option. Some options take you into a new menu. Press **NO** to return to the previous menu.



When scrolling through the menu you can return to the standby display or previous menu by pressing **NO** once or repeatedly, at any time.

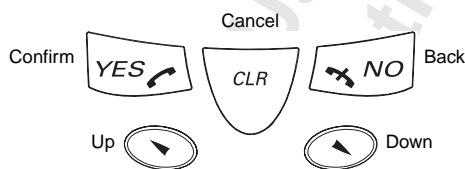
If you do not press any key for a minute, the handset automatically reverts to the standby display.

Note *The handset makes use of “dynamic” menus, which means that some menu options are only visible where applicable.*

The topics that follow (changing the handset and the base station menu language) show you how the menus work. For changing the handset menu language, every step of the procedure is given in detail. For all other procedures (including changing the base station menu language), it is assumed that you

know your way around the menus. This guide only tells you where to enter a PIN code and what menu item to select for a specific function. To help you locate the menu items that are not in the main menu, a path through the menus is given at the beginning of each procedure. These paths are indicated by the word "Route:" followed by menu items you have to select in sequence in order to get to a specific function. In most cases, the next menu item is not immediately visible so you have to use the **UP** or **DOWN** key to locate it. See also "Menu structure" on page 91 for an overview.

Navigation keys



Cancel

You can cancel any operation:

- Press **CLR** shortly.
The handset returns to standby.

CHANGING THE MENU LANGUAGE

Handset menus

The default menu language is English. To select another language, use the **Language** option. Please note that the menu options stay in English until you confirm your language choice.

To change the handset language:

Route: **Handset » Language**

1. Press **UP** or **DOWN** to enter the main menu.
Option **PhoneBook** is displayed.
2. Scroll to **Handset** and press **YES**.
3. Scroll to **Language** and press **YES**.
The current language is displayed.
4. Scroll through the list of languages until you find the language you want.
5. Press **YES** to confirm your choice.
The language has now been changed.

Base station menus

The base station menus form a part of the handset menus. They are normally in the same language as the handset menus. If the handset language is not available, the base station chooses English by default. To select another default language, use the **Language** option in the base station menus. Please note that the menu options stay in English until you confirm your language choice.

Please note that the procedure assumes that you are going to select the **Basic** option. After you have entered your PIN code, you have to go to the **Language** option.

To change the base station's default language:

Route: **BaseStation » Basic » Language**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Language** and press **YES**.
The current language is displayed.
4. Scroll through the list of languages until the language you want is selected.
5. Press **YES** to confirm your choice.
The base station language has now been changed.

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Telephoning

MAKING A CALL

When you make a call, you can enter the number and then press **YES**. This is called pre-dialling and allows you to check and, if necessary, correct the number.

To pre-dial:

1. Enter the number.
The number is displayed.
2. Correct the number if necessary (**CLR** = delete; **UP** = move left; **DOWN** = move right).
3. When the number is correct, press **YES** and wait for an answer.
4. Press **NO** to end the call.
The duration of the call is displayed. If available, the costs of the call are also displayed.

Tip While editing a telephone number, you can “jump” to the most left or the most right digit by respectively pressing **UP** or **DOWN** for one second.
You can enter a dial tone pause in the telephone number by pressing * for one second.

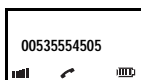
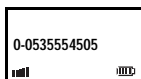
Dialling while off hook

To make a call in the usual way:

1. Press **YES** and wait for the dial tone.
2. Dial the number and wait for a connection.
3. Press **NO** to end the call.
The duration of the call is displayed. If available, the costs of the call are also displayed.

CALL USING THE PHONE BOOK

Your handset contains a phone book for storing names and numbers. You can conveniently make calls using this phone book. To add names and numbers to the phone book, see section “Phone book” on page 35.



Calling by name

The call by name option lets you search for a name and number in the phone book.

To call by name:

Route: **PhoneBook » Find&Call**

1. Select **Find&Call** and press **YES**.
Enter **Name:** or **Phone book is empty** is displayed. To add names and numbers to the phone book, see “Adding name and number” on page 36.
2. Press the key which has the first letter of the name you are searching for. Press once for the first letter of the key, twice for the second and three times for the third letter of the key. To narrow down the search, you can also enter the next letter(s) of the name.
3. Correct the name if necessary (**CLR** = delete; **UP** = move left; **DOWN** = move right).
4. Press **YES** to confirm.
The first name in the phone book beginning with the entered letter(s) or, if it does not exist, a name beginning with the next letter is displayed.
5. Scroll until you find the right name.
6. Press **YES** to dial the number.

If you press **CLR** instead of **YES**, you can edit the number before dialling.

Tip While editing a name you can “jump” to the most left or the most right letter by respectively pressing **UP** or **DOWN** for one second. You can clear the whole name by pressing **CLR** for one second.

Quick call by name

You can also search for a number by name in your phone book without using the menus.

To use quick call by name:

1. Press the key which has the first letter of the name, and hold down the key until the display shows the first name in the phone book beginning with the letter on the key you have just pressed. For the second letter of the key, press the key again, without holding it down. For the third letter, press the key twice.
The display shows the first name in the phone book beginning with the chosen letter or, if it does not exist, only the letters you entered. In the latter case, the last and incorrect letter flashes. You can enter another letter to correct it. If the phone book is empty, see “Adding name and number” on page 36 for more information.
2. You can now enter more letters as in step 1, or scroll until you find the right name.
3. Press **YES** to dial the number.

If you press **CLR** instead of **YES**, you can edit the number before dialling.



Example:

Suppose you want to call someone whose name is 'Jones'. Press number key **5** and hold until the first name in the phone book beginning with 'J' appears. Press number key **6** three times for the 'O'. The first name in the phone book beginning with 'Jo' appears. You can now continue by pressing number key **6** twice for the 'N' and so on or scroll until you find the name 'Jones'. Press **YES** to dial the number.

REDIALLING

The last ten numbers you dialled are available for redial.

To redial the last number dialled:

1. Press and hold **YES** and wait until the last dialled number or name appears.

The handset beeps if there are no names or numbers available for redial. If the number appears in the phone book, the name is shown instead.

2. Press **YES** for the second time.

The handset dials the number again.

To dial one of the ten last dialled numbers:

1. Press and hold **YES** and wait until the last dialled number or name appears.

The handset beeps if there are no names or numbers available for redial. If the number appears in the phone book, the name is shown instead.

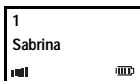
2. Scroll until you have the right number or name.

3. Press **YES** to dial the selected number.

If you press **CLR** instead of **YES**, you can edit the number before dialling.

You can also access the last dialled number memory via the **Information** menu option **LastDialled**. It is only available if names or numbers are available for redial.

When you switch off your handset, the last dialled numbers are erased. You can permanently store the last dialled numbers in your phone book. See "Adding last dialled numbers" on page 36.



RETURNING A CALL

When you receive an internal call, the number (or name) of the caller is displayed. In that case the number is stored in the who called memory. The call info icon shows you if there are new unanswered calls. By using the call return function, you can easily return a call to these numbers. The who called memory holds up to ten numbers.

When there are new unanswered calls, the handset displays **Check Who Called ?** If you do not want to return a call at this stage, press **NO**.

To return a call now:

1. Press **YES**.

A list of numbers appears. If the number appears in the phone book, the name is shown instead.

New entries are marked with an exclamation mark. Calls that have been answered with this handset are marked with the letter **A**.

2. Scroll until you have the right number or name.

3. Press **INT** to dial the selected number.

The number is removed from the who called memory and stored in the last dialled memory.

You can also access the who called memory via the **Information** menu option **WhoCalled**. You have this option only if names or numbers are available for returning a call.

To return one of the last ten calls:

Route: **Information » WhoCalled**

1. Select **WhoCalled** and press **YES**.

A list of numbers appears. If the number appears in the phone book, the name is shown instead.

New entries are marked with an exclamation mark. Calls that have been answered with this handset are marked with the letter **A**.

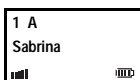
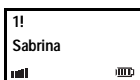
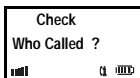
2. Scroll until you have the right number or name.

3. Press **INT** to dial the selected number.

The number is removed from the who called memory and stored in the last dialled memory.

If you press **CLR** instead of **INT**, you can edit the number before dialling.

When you switch off your handset, the who called list is erased. You can permanently store the who called numbers in the phone book. See “Adding caller’s number” on page 37.



RECEIVING A CALL

When the handset rings:

1. Press **YES** to answer the call.
2. To end the call, press **NO**.

The duration of the call is displayed. If available, the costs of the call are also displayed.

On an incoming internal call, the caller's handset number is displayed. If the caller's number is included in your handset phone book, the corresponding name is displayed instead.

Sometimes the handset rings at an inconvenient moment. If you do not want to answer the call, press **NO**. You can press **YES** if you still want to answer the call.

TURNING OFF THE MICROPHONE

During a call you may want to talk to someone else, without the caller hearing. You can do this by switching off the microphone using the **CLR** key.

You can switch the microphone off by:

- Pressing **CLR** until you are ready to talk to the caller again.
Short beeps and the ring off icon indicate that the microphone is off.
Or
- Pressing **CLR** quickly.
Short beeps and the ring off icon indicate that the microphone is off. To switch the microphone on, press **CLR** again.

TURNING OFF THE RINGER AND WARNING SOUND

If your handset rings or a warning sounds at an inconvenient moment, you can turn off the sound.

To turn off the ring sound temporarily:

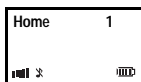
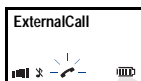
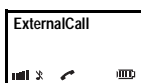
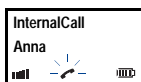
- Press **CLR** quickly.
The ring off icon appears.

Even with the sound off, you can still answer the call. The warning light and hook icon keep flashing.

To turn off the ring or the warning sound permanently:

- Press **CLR** for one second.
The ring off icon appears.

If a warning sounds and you press **CLR** for one second only the sound is turned off. The warning light continues to flash.



You can also turn off the ringer permanently by adjusting the ring volume to its lowest level. See “Ring volume” on page 42.

To turn the ring or the warning sound on again:

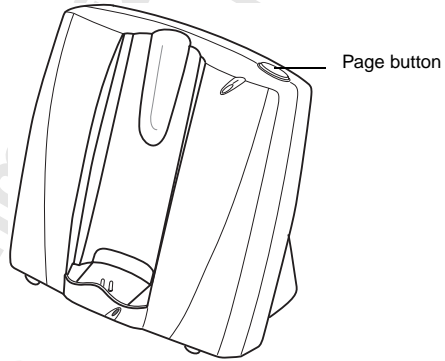
- Press **CLR** for one second.
The ring off icon disappears.

PAGING A HANDSET FROM THE BASE STATION

The base station has a search function with which you can page the handsets connected to it.

Press the **PAGE** button on the base station, and the handset rings.

Page Call appears in the handset display. Press **YES** and **NO**, or the **PAGE** button on the base station once, to stop the ringing.



Advanced telephoning

WHEN USING MORE THAN ONE HANDSET

If you use more than one handset with the base station, here are a few special hints.

Internal or external call?

When you receive a call, there is a different ring signal for internal and external calls:

- An internal ring signal has a two-second signal followed by a four-second pause.
- An external ring signal is the same as usual.

During an internal call, the number of the caller's handset is displayed.

You can set the tune of the ring signal for internal and external calls yourself. This makes it easier for you to recognize the ring signal of your own handset. For more information, please read "Ringer tones or melodies" on page 42.

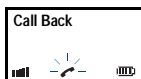
Call back

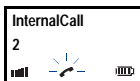
The base station calls you back when you transfer an external call to another handset without waiting for an answer but the third party does not respond within 30 seconds.

You can select different ring signals when being called back by the base station. For more information, please read "Ringer tones or melodies" on page 42.

MAKING AND RECEIVING AN INTERNAL CALL

To make an internal call, you use the **INT** key on the handset. If you receive an internal call, the number of the caller appears in the left-hand side of the display. If the caller's number is included in your handset phone book, the corresponding name appears instead.





To make an internal call:

1. Press **INT** and wait for the dial tone.
2. Dial the internal telephone number and wait for a connection.
3. Have a conversation.
4. Press **NO** to end the call.
The duration of the call is displayed.

To receive an internal call:

1. Press **YES** to answer the call.
2. Have a conversation.
3. Press **NO** to end the call.
The duration of the call is displayed.

Each handset has a unique extension number on the base station by which it can be contacted. See the table below for an overview.

Device	Extension number
Handset 1 - 8	1 - 8
All handsets	*

RECEIVING A SECOND CALL

If you are engaged on an internal call to another handset and an external call comes in, you are notified by two short beeps in your earpiece at regular intervals. You can either finish the current call or put the current call on hold to answer the external call. If you do not answer the external call, another handset can take the call.

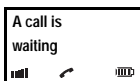
To finish the current call and answer the external call:

1. To end the current call, press **NO**.
2. Press **YES** to answer the external call.

To put the current call on hold and answer the external call:

1. Press **R** to answer the external call.
2. You now have three options:
 - Continue the internal call using **INT**.
 - Transfer the external caller using **NO**.
 - Continue the call as a three-party call by pressing **3**.

In a three-party call, the external call is connected to two handsets and you can have a conversation with two people at the same time. See also "Call waiting notification" on page 47.



SEARCHING FOR HANDSETS OR PEOPLE

The cordless phone has a function which you can use to search for handsets and any handset user on the same base station. You can call all other handsets by using your handset.

To use the search function:

1. Press the * key and press **INT**.
All handsets connected to the base station ring.
2. Wait for an answer.
You are connected to the first person that answers the call.

If you receive a search call from another handset on the same base station, **Page Call** appears. Press **YES** to answer the call. You only are connected if you are the first to answer.



CONSULTING WITH ANOTHER HANDSET OR TRANSFERRING A CALL

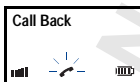
The cordless phone allows you to consult with a third party. You can put the caller on hold and call another number. You can then talk without the caller hearing you. Then you can continue or transfer the original call.

You have an external call and want to consult with a person using another handset on the base station:

1. Press **INT** to put the external call on hold.
You hear the dial tone.
2. Dial the internal number of the handset you want.
If the handset is not available or engaged, you hear the engaged tone. You can return to the external call by pressing **INT** again. If the handset is free, you hear it ring.
3. You now have three options:
 - Continue the external call using **INT**.
 - Transfer the external caller using **NO**.
 - Continue the call as a three-party call by pressing **3**.

In a three-party call, a caller is connected to two handsets.

The base station calls you back when you transfer an external call to another handset without waiting for an answer, but the third party does not respond within 30 seconds.



MAKING A THREE-PARTY CALL

In a three-party call, a caller is connected to two handsets on the base station. The three-party call is sometimes also known as a conference call.

You have an external call and you wish to involve a third person with a handset on the base station:

1. Press **INT** to put the external call on hold.
You hear the dial tone.
2. Dial the internal number of the handset you want.
If the handset is not available or engaged, you hear the engaged tone. You can return to the external call by pressing **INT** again. If the handset is free, you hear it ring.
3. Wait for a connection.
4. Press **3** to connect the three parties in the conversation.

SETTING THE HANDSET TO TONE DIALLING

If your handset is set to pulse dialling, you can switch to tone dialling if required. For example: to control a teleservice such as voice mail.

To switch the handset to tone dialling during a call:

Route: **DialMode » GoToDTMF**

- Select **GoToDTMF** and press **YES**.
The handset now uses tone dialling.

When you hang up, the handset goes back to pulse dialling.

To select either tone or pulse dialling permanently, please refer to “Pulse or tone dialling” on page 72.

SETTING THE HANDSET TO LONG TONES

The tones transmitted by the handset may be too short for some interactive information services. If you have problems, you can temporarily change the length of the tones.

If the handset is set to long tones, the tones are transmitted for the same length of time as you keep the keys pressed down.

To switch the handset to long tones during a call:

Route: **DialMode » DTMF-Long**

- Select **DTMF-Long** and press **YES**.
The handset switches to long tones for the duration of the call.

To switch the handset back to short tones during a call:

Route: **DialMode » DTMF-Short**

- Select **DTMF-Short** and press **YES**.

The handset switches to short tones again.

SENDING A DIAL TONE PAUSE

If you are dialling while the handset is off hook, you can use menu option **SendPause** to allow the handset to wait for the dial tone.

To insert a dial tone pause while dialling off hook:

Route: **DialMode » SendPause**

- Select **SendPause** and press **YES**.

A ‘.’ is displayed and the handset waits for the dial tone.

Note *When you enter a phone number before dialling, you have to press * for one second to insert a dial tone pause.*

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Phone book

PHONE BOOK USE

Your handset contains a phone book for 100 names and numbers. You can get to the phone book via the **PhoneBook** menu option.

The phone book lists all the names and numbers in alphabetical order. You can freely add names and numbers to the phone book.

Entering names

Use the number keys to enter names in the phone book.

Press a key once for the first letter of the key, press it twice for the second letter, three times for the third letter and so on. To enter the letters with a diaeresis or accent or to enter a digit, press the same key a few more times.

For example: to insert **Å** press number **2** five times; to insert **È** press number **3** four times and to enter a space, press number **1** once. See the table below for more details.

To insert lower case letters, press the letter first and then *****. To revert to upper case letters again, press the letter and then *****. To insert an asterisk (*****) in a name, press **#** twice.

Key	Press the corresponding key this many times for the character											
	1	2	3	4	5	6	7	8	9	10	11	12
1	-	?	!	,	.	:	"	'	()		1
2	A	B	C	Å	Ä	Æ	À	Ç		2		
3	D	E	F	È	É	3						
4	G	H	I	Ì	4							
5	J	K	L	5								
6	M	N	O	Ñ	Ö	Ø	Ò	6				
7	P	Q	R	S	ß	7						
8	T	U	V	Ü	Ù	8						
9	W	X	Y	Z	9							
0	0	+	&	@	/	\$	%	£				
#	#	*										

ADDING NAME AND NUMBER

You can use the **AddNew** option to enter names and numbers in the phone book.

To add a new phone book entry:

Route: **PhoneBook » Store » AddNew**

1. Select **AddNew** and press **YES**.

Enter Name: or **Phone book Full** is displayed. In the latter case, you have to delete a phone book entry first before you can add a new one.

2. Enter a name (**CLR** = delete; **UP** = move left; **DOWN** = move right; **1** = space; ***** = lower case).
3. Press **YES** to confirm.

EnterNumber: is displayed.

4. Enter the telephone number (**CLR** = delete; **UP** = move left; **DOWN** = move right; press ***** for one second = dial tone pause).
5. Press **YES** to confirm.

The name and number are stored in the phone book.

Tip While editing the name or number, you can “jump” to the most left or the most right letter by respectively pressing **UP** or **DOWN** for one second. You can clear the whole name or number by pressing **CLR** for one second.

ADDING LAST DIALLED NUMBERS

The last ten numbers you have dialled remain stored in the memory of your handset until you turn it off. You can use the **AddLastDial** option to add these numbers to the phone book.

Menu option **AddLastDial** appears only if names or numbers are available for redial.

To add a number you have dialled recently:

Route: **PhoneBook » Store » AddLastDial**

1. Select **AddLastDial** and press **YES**.

A list of numbers is displayed. If **Phone book Full** appears, you have to delete a phone book entry first before you can add a new one.

2. Scroll through the list of last dialled numbers until you have the number you want to store.
3. Press **YES**.

Enter Name: is displayed.

4. Enter a name (**CLR** = delete; **UP** = move left; **DOWN** = move right; **1** = space; ***** = lower case).
5. Press **YES** to confirm.

The number to be added is displayed.

6. Edit the number if necessary (**CLR** = delete; **UP** = move left; **DOWN** = move right; press ***** for one second = dial tone pause).
7. Press **YES** to confirm.

The name and number are stored in the phone book.

Enter Name:
John_

EnterNumber:
053405_



ADDING CALLER'S NUMBER

Your phone keeps a list of numbers of people who have called you internally with another handset. The last ten numbers of your callers remain stored in your handset memory until you turn it off. You can use the **AddWhoCall** option to add these numbers to the phone book.

Menu option **AddWhoCall** appears only if names or numbers are available for returning a call.

To add a caller's number to the phone book:

Route: **PhoneBook » Store » AddWhoCall**

1. Select **AddWhoCall** and press **YES**.
A list of numbers appears. If **Phone book Full** is displayed, you have to delete a phone book entry first before you can add a new one.
2. Scroll through the list of who called numbers until you have the number you want to store.
3. Press **YES**.
Enter Name: is displayed.
4. Enter a name (**CLR** = delete; **UP** = move left; **DOWN** = move right; **1** = space; * = lower case).
5. Press **YES** to confirm.
The number to be added is displayed.
6. Edit the number if necessary (**CLR** = delete; **UP** = move left; **DOWN** = move right; press * for one second = dial tone pause).
7. Press **YES** to confirm.
The name and number are stored in the phone book.

EDITING NAMES AND NUMBERS

With the **Edit** option, you can change the names and numbers in the phone book.

Editing names

You can correct a misspelled name or give a new name to an existing telephone number.

To edit a name:

Route: PhoneBook » Find&Edit » Edit

1. Select **Edit** and press **YES**.
Enter Name: or Phone book is empty is displayed. In the latter case, no names are available for editing.
2. Enter the first letter(s) of the name you are searching for.
3. Press **YES**.
4. Scroll until you find the name.
5. Press **YES**.
The name to be edited is displayed.
6. Correct the name with the number keys (**CLR** = delete; **UP** = move left; **DOWN** = move right; **1** = space; * = lower case).
7. Press **YES** twice to confirm.

Tip While editing the name, you can “jump” to the most left or the most right letter by respectively pressing **UP** or **DOWN** for one second. You can clear the whole name by pressing **CLR** for one second.

Editing telephone numbers

You can correct a telephone number or give another number to a name.

To edit a number:

Route: PhoneBook » Find&Edit » Edit

1. Select **Edit** and press **YES**.
Enter Name: or Phone book is empty appears. In the latter case, no numbers are available for editing.
2. Enter the first letter(s) of the name you are searching for.
3. Press **YES**.
4. Scroll until you find the name.
5. Press **YES** twice.
The number to be edited is displayed.
6. Correct the number with the number keys (**CLR** = delete; **UP** = move left; **DOWN** = move right; press * for one second = dial tone pause).
7. Press **YES** to confirm.

Tip While editing the number, you can “jump” to the most left or the most right digit by respectively pressing **UP** or **DOWN** for one second. You can clear the whole number by pressing **CLR** for one second.



DELETING NAMES AND NUMBERS

You can also delete names and associated numbers from the phone book.

To delete a name and number from the phone book:

Route: **PhoneBook » Find&Edit » Delete**

1. Select **Delete** and press **YES**.
Enter Name: or **Phone book is empty** appears. In the latter case, no phone book entries are available for deletion.
2. Enter the first letter(s) of the name you are searching for.
3. Press **YES**.
4. Scroll until you find the name.
5. Press **YES** to confirm.
The name and number are deleted from the phone book.

To delete all names and numbers from the phone book:

Route: **PhoneBook » DeleteAll**

1. Select **DeleteAll** and press **YES**.
Delete? or **Phone book is empty** appears. In the latter case, no phone book entries are available for deletion.
2. Press **YES** to confirm.
Deleting all is displayed while all names and numbers are deleted from the phone book.

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Personalizing the handset

LANGUAGE

You can change the language of the menus at any time. The default language is English.

To change the handset menu language:

Route: **Handset » Language**

1. Select **Language** and press **YES**.
The current language is displayed.
2. Scroll through the list of languages until the language you want is selected.
3. Press **YES** to confirm your choice.
The language has now been changed.

Setting changes that have been confirmed remain stored in the memory, even when you switch off the handset. Changes that have not been confirmed will be cancelled. If you receive a call when you are changing one of the settings, press **YES** to answer the call.

EARPIECE VOLUME

During a telephone call, you can use the **VOLUME UP** or **VOLUME DOWN** key to adjust the volume of the earpiece.

To adjust the volume during a call:

- Press the **VOLUME UP** or **VOLUME DOWN** key once or more.

If you are not making a call you can still adjust the volume:

1. Press **YES**.
You hear the dial tone.
2. Keep listening and press the **VOLUME UP** or **VOLUME DOWN** key once or more.
You hear the dial tone becoming louder or quieter.
3. Press **NO** to cancel the dial tone.

If the earpiece is at maximum or minimum volume, you hear a warning tone.

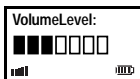
RING VOLUME

You can adjust the ring volume of the handset.

To adjust the ring volume:

Route: **Handset » Alerts » RingVolume**

1. Select **RingVolume** and press **YES**.
A volume level bar is displayed.
2. Press the **UP** or **DOWN** key once, or more, to turn the volume up or down.
You can now also use the **VOLUME UP** or **VOLUME DOWN** key to change the volume. Each time you press **VOLUME UP** or **VOLUME DOWN**, you hear the ring at the new volume. If you set the volume to its lowest level, the ring off icon appears.
3. Press **YES** to confirm.
The ring volume level has now been changed.



RINGER TONES OR MELODIES

You can change the ringer tone for each call type to a different sound or a pre-programmed melody. For each ring signal type, you can choose from four ringer tones or six melodies.

To set the sound for a ringing type:

Route: **Handset » Alerts » RingType » Internal/External/CallBack/Message/Page**

1. Select the ring signal type: **Internal**, **External**, **CallBack**, **Message** or **Page** and press **YES**.
The current setting is displayed.
2. Select sound **Low**, **Medium**, **High**, **Mixed** or **Melody (1 - 6)** using **UP** or **DOWN**.
The selected sound is played. The menu options **Low**, **Medium**, **High** and **Mixed** refer to the pitch of the ringing tone.
3. Press **YES** to confirm.
The ringer tone or melody is set.

The table below lists the names of the melodies.

Melody	Name
1	Jumpy
2	Eine kleine Nachtmusik
3	Toccata
4	Elise
5	Samba
6	Blues Rhythm

DISCREET RINGING

In the discreet ringing mode, your handset starts ringing at the lowest audible volume level. It then gets louder and louder.

To set discreet ringing:

Route: **Handset » Alerts » DiscreetRng**

1. Select **DiscreetRng** and press **YES**.
The current setting is displayed.
2. Use the **UP** or **DOWN** key to select the setting you want.
3. Press **YES** to confirm.

You can also turn off the ringer, see “Ring volume” on page 42 for more information.

AUTOMATIC ANSWERING

With an audio accessory attached, you can set your handset to answer incoming calls automatically. This allows full, handsfree operation.

To enable or disable automatic answering:

Route: **Handset » AutoAnswer**

1. Select **AutoAnswer** and press **YES**.
The current setting is displayed.
2. Use the **UP** or **DOWN** key to select the setting you want.
3. Press **YES** to confirm.

When a call comes in, you hear a one second beep in the audio accessory and the ringer sounds as well. After this beep, the handset goes off hook.

The handset’s earpiece and microphone are automatically disabled when an audio accessory is attached.

KEY CLICK

Key click is the sound you hear each time you press a key. This feature can be enabled and disabled.

To set key click:

Route: **Handset » Alerts » KeySound**

1. Select **KeySound** and press **YES**.
The current setting is displayed.
2. Use the **UP** or **DOWN** key to select one of the following options:
 - **Click** to have a key click with each key press.
 - **Silent** for no key click.
3. Press **YES** to confirm.

DISPLAY LIGHT

Your handset has an illuminated display which lights up when a key is pressed during an incoming call or when it is put in or out of the base station. The illumination automatically goes off after a while, unless you press a key.

To set the display light to automatic or off:

Route: **Handset » Display » Light**

1. Select **Light** and press **YES**.
The current setting is displayed.
2. Use the **UP** or **DOWN** key to select the setting you want.
3. Press **YES** to confirm.

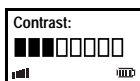
DISPLAY CONTRAST

You can adjust the contrast of the display to one of eight levels to make it easier to read.

To change the display contrast:

Route: **Handset » Display » Contrast**

1. Select **Contrast** and press **YES**.
The contrast level bar appears.
2. Adjust the contrast with **UP** and **DOWN**.
You hear an error beep when either limit is reached.
3. Press **YES** to confirm.
The contrast level is set.



CLEARING ALL HANDSET SETTINGS

You can clear all settings on the handset simultaneously. The last dialled numbers, the who called memory and the last call information are also cleared. The phone book, the pin code, the subscriptions and the total calls information, however, are not cleared.

All handset settings revert to default.

To reset all handset settings:

Route: **Handset » MasterReset**

1. Select **MasterReset** and press **YES**.
Enter Pin: or Reset All Settings ? is displayed.
2. If requested enter your PIN code for the handset (see page 58) and press **YES**.
Reset All Settings ? is displayed.
3. Press **YES** to confirm.
All handset settings are cleared.

Personalizing the base station

CHANGING SETTINGS (PIN CODE)

If your handset is connected to the base station, you can change its settings by using this handset. You may have to enter the base station PIN code to change these settings. For the default base station PIN code, see page 58. To prevent others changing the settings of the base station, you should change this code. You can find out how to do this in “Changing the base station PIN code” on page 56.

When you must enter the PIN code, PIN: is displayed:

- Enter the base station PIN code using the number keys on the handset.

Connecting to other types of base stations

You can connect your handset to other types of base stations. Please refer to the appropriate documentation.

LANGUAGE

The base station menus form a part of the handset menus. They are normally in the same language as the handset menus. If the handset language is not available, the base station chooses English by default. To select another default language, use the **Language** option in the base station menus.

To change the base station's default language:

Route: **BaseStation » Basic » Language**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Language** and press **YES**.
The current language is displayed.
4. Scroll through the list of languages until the language you want is selected.
5. Press **YES** to confirm your choice.
The base station language has now been changed.

RING VOLUME

The base station rings when an external call is received. You can adjust the ring volume.

To adjust the ring volume with the handset:

Route: **BaseStation » RingVolume**

1. Select **RingVolume** and press **YES**.
The current ring volume setting is displayed (0 is the quietest level and 6 is the loudest level).
2. Press the **UP** or **DOWN** key once, or more, to turn the volume up or down. You can now also use the **VOLUME UP** or **VOLUME DOWN** key on the handset to change the volume. Each time you press **VOLUME UP** or **VOLUME DOWN**, you hear the ring at the new volume.
3. Press **YES** to confirm.
The base station ring volume level has now been changed.

RINGING ORDER

When the base station receives an external call, all handsets ring. The base station is pre-set so that all handsets ring at the same time. However, you can also set the order in which the handsets ring.

Setting the ringing order

Using a handset, you can program the order in which the handsets ring.

To change the ringing order:

Route: **BaseStation » Basic » RingOrder » Priority**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Priority** and press **YES**.
The current ringing order is displayed.
4. Press **UP** or **DOWN** to select one of the following options:
 - **One** means only handset 1.
 - **One, Rest** means first handset 1, then all handsets.
 - **One, Two..** means first handset 1, then 2, then 3, etc.
 - **All** means all the handsets at the same time (default).
5. Press **YES** to confirm.
The ringing order has now been stored.

If the handset that should ring first has been switched off, the next handset rings instead.

Setting the number of rings

You can also set the number of times a handset rings before the next handset starts to ring.

To set the ring count:

Route: **BaseStation » Basic » RingOrder » Delay**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Delay** and press **YES**.
The current setting is displayed (the default is 3 times).
4. Enter the number of times a handset should ring (1 - 9).
5. Press **YES** to confirm.
The number of rings is stored.

CALL WAITING NOTIFICATION

If you are engaged in an internal call with another handset and an external call is received, you can be notified by two short beeps in your earpiece at regular intervals. You can either finish the current call or put the current call on hold to answer the external call. You can enable or disable this call waiting function.

To set the call waiting function:

Route: **BaseStation » Access » CallWaiting**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **CallWaiting** and press **YES**.
The current setting is displayed (default is **Off**).
4. Use the **UP** or **DOWN** key to select the setting you want.
5. Press **YES** to confirm.
The call waiting notification setting is changed.

See also "Receiving a second call" on page 30.

PRIORITY PHONE

The priority phone feature allows you to be reachable by phone even when you are out of range of the base station. When you are in range, calls are routed to your handset. If you are out of range for certain period of time, calls can be routed to a GSM phone or a voice mailbox, for instance.

If you enable this feature, the base station scans for your handset at regular intervals. If it cannot locate the handset, it calls a certain telephone network service to activate a diverted telephone number. As soon as the handset is

located again, the same service is called to deactivate the diverted telephone number. Ask your dealer for more information on the call diversion service.

Priority phone can only be set for one handset. If a diversion telephone number is activated, no calls may be received by the base station until the priority phone handset is located again.

Setting a handset as priority phone

To set a handset as priority phone and to set the diverted telephone number:

Route: **BaseStation » PriorityNo » AssignNo**

1. Select **PriorityNo** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **AssignNo** and press **YES**.
Dev.Number: is displayed. If a priority phone handset has already been set, this is shown in the display.
4. Enter the number of the handset you want to assign as priority phone.
5. Press **YES** to confirm.
Either **Access Code:** or **Handset not known** is displayed. In the latter case, you have entered a non-existent handset number. If an access code has been set before, this is shown in the display.
6. If required, enter the access code for the call diversion service (**CLR** = delete; **UP** = move left; **DOWN** = move right).
7. Press **YES** to confirm.
Divert: is displayed. If a divert code has been set before, this is shown in the display.
8. Enter the numbers to be dialled after the access code, in order to activate a diverted number (**CLR** = delete; **UP** = move left; **DOWN** = move right).
9. Press **YES** to confirm.
Either **Undo Divert:** or **Fill Divert Profile** is displayed. In the latter case, you have not entered a code for call diversion. If an undo divert code has been set before, this is shown in the display.
10. Enter the numbers to be dialled after the access code, in order to deactivate a diverted number (**CLR** = delete; **UP** = move left; **DOWN** = move right).
11. Press **YES** to confirm.
Priority phone is now set or if **Fill undo Divert Prof.** is displayed, you have not entered a code to deactivate call diversion.

Priority phone deactivation

To deactivate a handset as priority phone:

Route: **BaseStation » PriorityNo » AssignNo**

1. Select **PriorityNo** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **AssignNo** and press **YES**.
The number of the priority phone handset is displayed.
4. Press **CLR** to remove the number.
5. Press **YES** to confirm.
The priority phone is deactivated.

Scanning period for priority phone within range

If a priority phone is activated, the base station scans for the handset at regular intervals. The time between scans can be set. The scanning interval is a choice between not being reachable for a short period and frequently activating and deactivating call diversion if the handset is nearly out of range.

To set the scanning period:

Route: **BaseStation » PriorityNo » ScanPeriod**

1. Select **PriorityNo** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **ScanPeriod** and press **YES**.
The current scan period is displayed in minutes (default is 2).
4. Enter the number of minutes between scans (1 - 10).
5. Press **YES** to confirm.
The scanning period for the priority phone is changed.

LEAST COST ROUTING

If you are in a position to select different telephone operators, you can have the base station automatically route calls to another operator if the telephone number begins with a specific prefix. In this way, you can easily change the operator without having to change your phone numbers.

The least cost routing function replaces the prefix with digits to select the other operator. For instance, if the telephone number begins with 00, it can be substituted by 0016 to select the other operator. You can bypass this feature if you go off hook first and then dial the number.

You can set four prefixes. A prefix may consist of four digits and it can be substituted by a maximum of four digits.

To set least cost routing:

Route: **BaseStation » Routing**

1. Select **Routing** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
Either **Route** (1 - 4) or a number, if a prefix has already been set, is displayed.
3. Press the **UP** or **DOWN** key, once or more, to choose a different prefix if required and press **YES**.
4. Enter the prefix digits (**CLR** = delete; **UP** = move left; **DOWN** = move right).
5. Press **YES** to confirm.
Substitution digits are displayed if they have been set before.
6. Enter the substitution digits (**CLR** = delete; **UP** = move left; **DOWN** = move right).
7. Press **YES** to confirm.
A prefix with associated substitution digits is set.

DIAL TONE PAUSE

If you include a pause in a telephone number, there is a pause during dialling at that point to wait for the dial tone. The base station automatically inserts a dial tone pause before each telephone number. You can adjust the length of the pause.

The standard pause is 1 second. You can set this from 1 to 10 seconds:

Route: **BaseStation » Basic » PhoneLine » Pause**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Pause** and press **YES**.
The current pause length is displayed.
4. Enter a number (1 - 10) to set the length of the pause in seconds.
5. Press **YES** to confirm.
The dial tone pause has now been changed.

To include a pause in a telephone number, press * for one second. A dash marks the pause. The base station waits for the dial tone for the length of the dial tone pause.

CLEARING ALL BASE STATION SETTINGS

You can clear all settings on the base station simultaneously. The pin code and the subscriptions, however, are not cleared.

All settings revert to default.

To reset all base station settings:

Route: **BaseStation » Basic » MasterReset**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **MasterReset** and press **YES**.
Reset All Settings ? is displayed.
4. Press **YES** to confirm.
All base station settings are cleared.

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Blocking keys and extra security

BLOCKING HANDSET KEYS

If you carry the handset in your pocket, you might accidentally press the keys and make a call. To prevent this, you can have them automatically blocked if you do not press a key for one minute. The keys no longer work and a key symbol is displayed, but you can still receive calls.

To unblock the keys temporarily:

- Press **UP** or ***** and press **YES**.

The key symbol disappears; the keys are enabled again.

To enable or disable automatic handset key locking:

Route: **Handset** » **AutoKeyLock**

1. Select **AutoKeyLock** and press **YES**.
The current setting is displayed.
2. Use the **UP** or **DOWN** key to select the setting you want.
3. Press **YES** to confirm.

The automatic key lock setting has been changed.

If the keys are blocked and a key is pressed, **Press * to unlock keys** is displayed.

If the keys are blocked and you receive a call, you can still answer the call in the normal way, without first unblocking the keys. See also “Emergency call” on page 59.

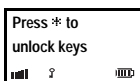
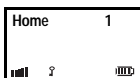
SETTING HANDSET LOCKS

You can protect your handset against unauthorized use with your PIN code.

You can secure the handset against being used by someone else, or just against adding or deleting base station subscriptions. Both security features are off by default. You can change the PIN code of the handset.

If you enter an incorrect handset PIN code three times in a row, the handset is blocked.

See for the default handset PIN code “Overview PIN and other codes” on page 58.



Securing against unauthorized use

You can set the handset so that the PIN code must be entered after switching on. This option is off by default.

To enable or disable protection against unauthorized use:

Route: **Handset » PhoneLock » PowerOn**

1. Select **PowerOn** and press **YES**.
Enter PIN: is displayed.
2. Enter the PIN code for the handset (see page 58) and press **YES**.
The current setting is displayed.
3. Press **UP** or **DOWN** to select the setting you want.
4. Press **YES** to confirm.
The security setting against unauthorized use has been changed.

Securing against adding or deleting subscriptions

You can set the handset so that the PIN code must be entered when adding or deleting base station subscriptions. This option is off by default.

To enable or disable protection against adding or the deletion of subscriptions:

Route: **Handset » PhoneLock » Subscript**

1. Select **Subscript** and press **YES**.
Enter PIN: is displayed.
2. Enter the PIN code for the handset (see page 58) and press **YES**.
The current setting is displayed.
3. Press **UP** or **DOWN** to select the setting you want.
4. Press **YES** to confirm.
The security setting has been changed.

See also “Subscribing to a base station” on page 78 and “Deleting subscription” on page 82.

CHANGING THE HANDSET PIN CODE

The handset is initially provided with a pre-set PIN code (see page 58). You should change this PIN code to a personal PIN code to prevent misuse.

To change the handset PIN code:

Route: **Handset » PhoneLock » ChangePIN**

1. Select **ChangePIN** and press **YES**.
EnterOldPIN: is displayed.
2. Enter the current PIN code for the handset (see page 58) and press **YES**.
Either **EnterNewPIN:** or **Wrong PIN** is displayed. In the latter case, you have entered a number that does not match the current PIN code.
3. Enter the four digits of the new PIN code and press **YES**.
RepeatNewPIN is displayed.

4. Enter the new PIN code again and press **YES**.
Either **New PIN accepted** or **Wrong New PIN** is displayed. In the latter case, the new PIN and the code you have just entered do not match.

You can write down the new PIN code in the space provided in “Personal handset PIN code” on page 58.

If you enter an incorrect new handset PIN code three times in a row, the handset leaves this menu option.

In other situations, if you enter an incorrect handset PIN code three times in a row, the handset is blocked and **PIN Blocked, Unblock?** is displayed. See below for unblocking the handset.

UNBLOCKING THE HANDSET

If your handset is blocked because an incorrect PIN code has been entered three times, you can unlock the handset with the IPEI code. After entering the IPEI code, you must enter a new PIN code.

The IPEI code is a unique code which has been assigned to the handset. The IPEI code can be found on the packaging or in “Showing the IPEI code” on page 57.

*If the handset is blocked, **PIN Blocked, Unblock?** appears. The handset must be unblocked before it can be used again. To unblock:*

1. Press **YES**.
Backdoor: is displayed.
2. Enter the IPEI code and press **YES**.
EnterNewPIN: is displayed.
3. Enter the four digits of the new PIN code and press **YES**.
RepeatNewPIN is displayed.
4. Enter the new PIN code again and press **YES**.
Either **New PIN accepted** or **Wrong New PIN** is displayed. In the latter case, the new PIN and the code you have just entered do not match.

If **New PIN accepted** appears, you can use the handset again.

If the handset is blocked, you can still make an emergency call without first unblocking the handset. See “Emergency call” on page 59.

CHANGING THE BASE STATION PIN CODE

To prevent unauthorized people from accessing vital settings on the base station, they are secured by a PIN code. Each time you want to change these base station settings, you must enter the PIN code. You cannot switch off this security feature but you can change the base station PIN code. You change the settings of the base station by using a handset connected to this base station.

See for the default base station PIN code “Overview PIN and other codes” on page 58.

To change the PIN code of the base station:

Route: **BaseStation » Basic » ChangePIN**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **ChangePIN** and press **YES**.
New PIN: is displayed.
4. Enter the four digits of the new PIN code and press **YES**.
Repeat PIN: is displayed.
5. Enter the new PIN code again press **YES**.
Either **New PIN activated** or **Wrong new PIN** is displayed. In the latter case, the new PIN and the code you have just entered do not match.

You can write down the new PIN code in the space provided in “Personal base station PIN code” on page 58.

If you enter an incorrect new base station PIN code three times in a row, the handset leaves this menu option.

In other situations, if you enter an incorrect base station PIN code three times in a row, the base station PIN code is invalidated and **BaseStation Blocked** is displayed. See below for resetting the base station PIN code.

RESETTING THE BASE STATION PIN CODE

If you enter an incorrect base station PIN code three times in a row, the PIN code is invalidated. Although you can still make and receive calls, you cannot alter the base station settings. Whenever you make an attempt to change a setting, you are asked to enter the PARI code. After entering the correct PARI code, the base station PIN code is reset to the default code (see page 58).

If the base station PIN code is blocked, Unblock BaseStation? appears. The base station PIN code must be unblocked to be able make changes again.

To unblock:

1. Press **YES**.
UnblockCode: is displayed.
2. Enter your PARI code.
On the back of the base station, you can see that the PARI code is a sequence of 12 digits.
3. Press **YES** to confirm.
The PIN code is reset to 1111.

SHOWING THE IPEI CODE

In some cases your telephone network operator or dealer may need the International Portable part Equipment Identity (IPEI) number of your handset to enable telephone network subscription. The IPEI code is a unique code which has been assigned to the handset.

The IPEI code can be requested when using the handset.

To display the IPEI code:

Route: Information » ShowIPEI

1. Select ShowIPEI and press **YES**.
Enter PIN: is displayed.
2. Enter the PIN code for the handset (see page 58) and press **YES**.
The 13-digit IPEI code is displayed.
3. Press **YES** to leave this menu.

Note Write down the IPEI code in the space provided in "IPEI code handset" on page 58. You might need it to unblock the handset. If you cannot retrieve the IPEI code, please contact your dealer.

OVERVIEW PIN AND OTHER CODES

The handset and base station use several identification codes for security reasons. In the table below, an overview of these codes and their values is given.

Code	Value	Backdoor code
Handset PIN	0000 (default)	IPEI
Base station PIN	1111 (default)	PARI
Authentication Code (AC)	Same as base station PIN.	Not applicable.
International Portable part Equipment Identity (IPEI)	Unique identity assigned to your handset by the manufacturer. See packaging or "Showing the IPEI code" on page 57.	Not applicable.
Primary Access Rights Identity (PARI)	Unique identity assigned to your base station by the manufacturer. See the back of the base station.	Not applicable.
Portable Access Rights Key (PARK)	Base station identification for the handset. See the back of the base station.	Not applicable.

You can write down your personal PIN codes and the IPEI code in the spaces provided below.

Personal handset PIN code

Personal base station PIN code

IPEI code handset

Extra features

EMERGENCY CALL

Your handset is provided with an emergency call feature. This allows you to call the emergency services even when the handset is PIN-code protected or blocked or when the keys are blocked or direct call is on. You can access this feature by calling 112.

To make an emergency call:

1. Enter 112 and press **YES**.
Emergency is displayed.
2. Wait for a connection and hold a conversation.
3. Press **NO** to end the call.

This emergency call feature temporarily overrides the handset PIN code and blocked keys if set.

BABY PHONE

You can use your handset as a baby monitor. This means you can listen to the sounds in a baby's room from a distance, by using another handset as a loudspeaker.

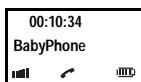
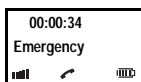
The handset, which is used as a baby monitor, automatically makes a call to another handset if this feature is activated. The handset mutes the ringer and earpiece so that the baby is not disturbed. All keys on the handset are blocked except for the **NO** key, which you can use to end the baby phone call.

If the baby phone call is interrupted, the handset displays **BabyCallLost Reactivate?** and the warning light stays on continuously. In this case, you can press **YES** to re-establish the baby phone call. If the baby phone call is established, the other end hears a confirmation beep every half a minute.

If the battery in the handset is low, the low battery warning beeps sound at the other end to show that the battery needs charging.

Baby phone activation

When you use the handset as a baby monitor place it somewhere in the baby's room so that it can easily pick up sounds.



To activate the baby phone:

Route: **Handset » BabyPhone » Activate**

1. Select **Activate** and press **YES**.
BabyPhone or **BabyPhone Call Failed** is displayed. In the latter case, either the phone number of the other end is incorrect or the other end is out of range.
2. Wait for a connection and place the handset somewhere in the baby's room.

You can end a baby phone call by pressing **NO**.

Baby phone call number

You can change the baby phone call number which is the internal telephone number of a handset you want to select as the other end.

To set the baby phone call number:

Route: **Handset » BabyPhone » SetPhoneNo**

1. Select **SetPhoneNo** and press **YES**.
The current baby phone number is displayed.
2. Enter the internal telephone number of the handset to be used as the other end (**CLR** = delete).
3. Press **YES** to confirm.
The baby phone call number is set.

Information tone

If the baby phone call is activated, the other end hears an information tone every half a minute to confirm that it is working (default). You can switch off the information tone if needed.

To enable or disable the information tone:

Route: **Handset » BabyPhone » InfoTone**

1. Select **InfoTone** and press **YES**.
The current setting is displayed.
2. Use the **UP** or **DOWN** key to select the setting you want.
3. Press **YES** to confirm.
The information tone setting has been changed.

DIRECT CALL

You can set the handset so that pressing any key dials a certain number. This means that if any key is pressed, for example by a small child, the same direct call number is always dialled.

Switching the direct call on

Direct call deactivates the automatic key lock. For information about automatic key lock, see "Blocking handset keys" on page 53.

To switch the direct call on:

Route: **Handset » DirectCall**

1. Select **DirectCall** and press **YES**.
Enable Direct Call? is displayed.
2. Press **Yes** to confirm.
DirectC.No: is displayed. If a direct call number has been set before, this is shown in the display.
3. Enter the direct call number with the number keys (**CLR** = delete; **UP** = move left; **DOWN** = move right; press ***** for one second = dial tone pause).
4. Press **YES** to confirm.
The direct call function is now on.

If direct call is on, **Direct Call** and the number are displayed. To call it, press any key on the handset. You can still make an emergency call without first switching off direct call. See "Emergency call" on page 59.

Switching the direct call off

If you want to switch off the direct call feature, it is important not to wait too long between the steps: otherwise the direct call number is dialled.

To switch the direct call off:

Route: **Handset » DirectCall**

1. Press **UP** or **DOWN** to enter the menu and then quickly scroll to **DirectCall** and press **YES**.
Disable Direct Call? is displayed. If you do not react within two seconds, the direct call number is dialled.
2. Press **YES** to confirm.
The direct call function is now off.

CALL BARRING

You can prevent certain numbers from being called from a handset by blocking those numbers in the base station. You can still receive incoming calls.

You can switch call barring on and off in the handset. Call barring in the handset is off by default.

If you call a blocked number, the line always sounds busy.

Some telephone numbers, such as emergency numbers, cannot be barred. Please consult your dealer for more information.

You can also have call barring via your telephone operator. It remains in effect irrespective of the call barring settings of the handset and base station. Please consult your dealer for more information.

Direct Call
0201300571



CalledNumber
is barred



Switching call barring on and off

Each handset (if you have more than one) should have call barring set on or off separately. Call barring is off by default.

To enable or disable call barring for a handset:

Route: **BaseStation » Access » Barring**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Barring** and press **YES**.
Dev.Number: is displayed.
4. Enter the number of the handset for which you want to enable or disable call barring.
5. Press **YES** to confirm.
Either the current setting or **Handset not known** is displayed. In the latter case, you have entered a non-existent handset number.
6. Press **UP** or **DOWN** to select the setting you want.
7. Press **YES** to confirm.
You have now enabled or disabled call barring.

Setting barred numbers

You can enter three numbers of up to 8 digits for call barring. You can also record the prefix of numbers to be barred, for instance the prefix for chat lines and other expensive services, or the prefix for international numbers. All calls to numbers with this prefix will be barred.

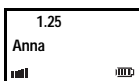
To set a barred number or prefix:

Route: **BaseStation » Access » BarredNo**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **BarredNo** and press **YES**.
Either **Group** (1 - 3) or a previously set number or prefix is displayed.
4. Press the **UP** or **DOWN** key, once or more, to choose another number or prefix if required and press **YES**.
Barred No: is displayed.
5. Enter the number or the prefix (**CLR** = delete; **UP** = move left; **DOWN** = move right).
6. Press **YES** to confirm.
The number or prefix is now barred.

EXEMPT NUMBERS

You can exempt telephone numbers, for example emergency numbers, from call barring and call budgeting by the base station. This means that these numbers can always be dialled. Some exempt numbers, such as the national emergency number, may already have been set and cannot be edited or removed.



To exempt a number from call barring and call budgeting:

Route: **BaseStation » Access » ExemptedNo**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **ExemptedNo** and press **YES**.
Either **Number** or a previously set exempt number is displayed.
4. Press the **UP** or **DOWN** key, once or more, to choose a different exempt number if required and press **YES**.
Exempted No: or **Exempted No. is fixed !** is displayed. In the latter case you cannot edit the exempt number and you have to select another entry.
5. Enter the exempt number (**CLR** = delete; **UP** = move left; **DOWN** = move right).
6. Press **YES** to confirm.
The number is now exempt from call barring and call budgeting.

CALL TARIFF

If the base station receives metering pulses¹ during a call, you can have the costs of the call displayed when you finish the conversation. You can set the amount of money (call tariff) by which the costs increase with each metering pulse. If you set the amount of money to zero or no metering pulses are received, the length of one call is displayed instead.

The call tariff can range either from 0.00 to 9.99 or from 0 to 999. The default call tariff is 1.00.

Ask your dealer if your telephone network provides metering pulses.

To set the call tariff:

Route: **BaseStation » Basic » Tariff**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Tariff** and press **YES**.
The current call tariff is displayed.
4. Enter the new call tariff (**CLR** = delete; **UP** = move left; **DOWN** = move right; * = decimal point).
5. Press **YES** to confirm.
The amount of money (call tariff) by which the call costs increase with each metering pulse is now set.

¹. This function may not be supported by your telephone network operator.

Example:

Suppose you have set the call tariff to 0.25. During a call when the first metering pulse is received, the call costs are 0.25. With the second pulse, they are 0.50 and so on.

CALL BUDGET

The base station is provided with a call budgeting feature, which you can use to set the amount of money or time a particular handset can spend on external calls. When the budget for a particular handset has been exceeded, the base station does not end an ongoing call but blocks the next external call until a new budget is set. However, emergency calls and calls to exempt numbers can still be made (see “Exempt numbers” on page 62).

If a particular handset has gone over its budget, the handset sounds busy and displays **No Budget** when an external call is attempted.

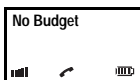
Budget type

Either time or costs can be budgeted depending on the budget type setting. Costs can only be budgeted if the call tariff is set and the base station receives metering pulses during a call. If no metering pulses are received during an external call, the cost budget remains the same. See also “Call tariff” on page 63.

To set the budget type:

Route: **BaseStation » Basic » CallInfo**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **CallInfo** and press **YES**.
The current budget type is displayed.
4. Press **UP** or **DOWN** to select one of the following options:
 - **Duration** to budget time that is spent on external calls.
 - **Cost** to budget the costs if metering pulses are received during an external call.
5. Press **YES** to confirm.
The budget type is set.



Setting call budgets

You can set a budget for a particular handset or, if the budget is exceeded, grant a new budget. Whether time or costs are budgeted depends on the budget type setting, see above. The maximum budget that can be set is 99 hours and 59 minutes or 99999 in local currency units.

To set a budget for a handset:

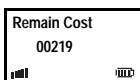
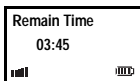
Route: **BaseStation » Access » Budget**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Budget** and press **YES**.
Dev.Number: is displayed.
4. Enter the number of the handset for which you want to set the budget.
5. Press **YES** to confirm.
Either the current setting or **Handset not known** is displayed. In the latter case, you have entered a non-existent handset number.
6. Press **UP** or **DOWN** to select **On**.
7. Press **YES** to confirm.
Either **Time Budget:** or **Cost Budget:** and the current amount are displayed. If the amount is negative, the budget has been exceeded.
8. Edit the amount (**CLR** = delete; **UP** = move left; **DOWN** = move right).
9. Press **YES** to confirm.
The budget is set for that handset.

To disable call budgeting for a handset:

Route: **BaseStation » Access » Budget**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Budget** and press **YES**.
Dev.Number: is displayed.
4. Enter the number of the handset for which you want to set the budget.
5. Press **YES** to confirm.
Either the current setting or **Handset not known** is displayed. In the latter case, you have entered a non-existent handset number.
6. Press **UP** or **DOWN** to select **Off**.
7. Press **YES** to confirm.
Call budgeting is disabled for that handset.



Remaining budget

You can easily check the remaining budget of your handset. The amount depends on the budget type and, if a cost budget is selected, whether metering pulses have been received during an external call. The amount can show a negative value which means that the budget has been exceeded and no more external calls can be made with your handset.

To see the remaining budget:

Route: **BaseStation » Information » CallBudget**

1. Select **CallBudget** and press **YES**.
One the following is displayed:
 - **No Budget** if no budget is assigned to your handset.
 - **Remain Time** and a value in hours and minutes if the budget type is time.
 - **Remain Cost** and a value in the local currency if the budget type is costs.
2. Press **YES** to leave this menu.

CALL STATISTICS HANDSET

Your phone can tell you how long your last call was. Your phone can also display the total time of all external calls made.

Last call

To see the time spent on your last call:

Route: **Information » LastCall**

1. Select **LastCall** and press **YES**.
The length of the last call is displayed in hours, minutes and seconds.
2. Press **YES** to leave this menu.

Total external calls made

To see the time spent on all outgoing external calls:

Route: **Information » TotalCalls**

1. Select **TotalCalls** and press **YES**.
The total time of all external calls made is displayed in hours, minutes and seconds.
2. Press **YES** to leave this menu.

CALL STATISTICS BASE STATION

The base station records the totals of all external calls made. One of these totals is costs which is dependent on the call tariff setting and metering pulses. If you have set the call tariff to zero or no metering pulses are received by the base station, this menu option is not available. Only the total time can then be displayed. See also "Call tariff" on page 63.

The maximum amount that can be displayed is either 99:59 or 99999.

Total duration

To see the time spent on outgoing external calls:

Route: **BaseStation » Information » TotDuration**

1. Select **TotDuration** and press **YES**.
The total time of all external calls made is displayed.
2. Press **YES** to continue.
Reset TotCallTime? is displayed.
3. Press **YES** to reset or **NO** to cancel.
PIN: is displayed.
4. Enter the PIN code for the base station (see page 58) and press **YES**.
Total Time is Reset is displayed for a short time.

Total cost

This menu option may not be available.

To see the total amount of costs of all external calls made:

Route: **BaseStation » Information » TotCosts**

1. Select **TotCosts** and press **YES**.
The total costs of all external calls made is displayed.
2. Press **YES** to continue.
Reset TotCallCost? is displayed.
3. Press **YES** to reset or **NO** to cancel.
PIN: is displayed.
4. Enter the PIN code for the base station (see page 58) and press **YES**.
Total Cost is Reset is displayed for a short time.

VOICE MAIL

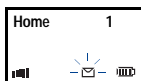
In some telephone networks, callers can leave a message in a voice mailbox if they cannot reach you. You then have to dial a service number to check for messages. With the cordless phone, this can be automated. If a message is received, the message icon on the handset flashes quickly and a message waiting sound is heard. You can then conveniently dial the service number via the **Voice:** menu option to listen to your messages.

Checking for voice mail messages

Menu option **Voice: x** is only available if there are voice mail messages. X indicates the number of messages. See also “Voice mail notification” below for more details.

To listen to voice mail messages:

1. Select **Voice: x** and press **YES**.
The service number is displayed.
2. Press **YES** to dial the number. Wait for a connection and follow the instructions given.



3. Press **NO** to end the call.
The length of the call is displayed. If available, the costs of the call are also displayed.

Voice mail notification

Voice mail services normally answer calls after a few rings. To check for voice mail messages, you have to call a service number, which lets you listen to your recorded messages. Ask your dealer for more details about the voice mail service.

To set the voice mail notification:

Route: **BaseStation » VoiceMail**

1. Select **VoiceMail** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
The current setting is displayed.
3. Use the **UP** or **DOWN** key to select the setting you want.
4. If you select **Off** continue with step 9.
5. Press **YES** to confirm.
The current number of rings is displayed.
6. Enter the number of times the base station should ring (1 - 9) before a voice mail notification is given (default is 5).
7. Press **YES** to confirm.
MailBoxNo: is displayed. If a service number has already been set, this is shown in the display.
8. Enter the service number (**CLR** = delete; **UP** = move left; **DOWN** = move right).
9. Press **YES** to confirm.
The voice mail notification setting has been changed.

If no service number has been set, the voice mail notification is cleared as soon as an external call is made.

See also "Checking for voice mail messages" on page 67.

SUBSCRIBING HANDSETS

The handset that comes with the base station is already automatically subscribed to the base station as described in "Preparing for use" on page 9. Any handsets you buy separately must also be subscribed, in order to connect them to the base station. A maximum of eight handsets can be subscribed to the base station. One handset can be subscribed to up to eight base stations.

Subscribing another handset

To subscribe a handset to a base station you need the authentication code of the base station. The authentication code, which is the same as the base station

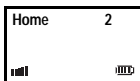
PIN code, is secret and prevents other handsets subscribing to the base station without your approval.

If the handset does not have a subscription, it automatically enters the subscription mode when it is switched on. In this case, the handset displays **Press <Page> base station** first and then **Enter AC:** appears. If so, you can skip step two and three of the procedure below.

To subscribe a DT200 handset to the base station:

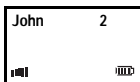
Route: **Networks » Subscribe**

1. Press the **PAGE** button on the base station for at least two seconds.
2. Select **Subscribe** and press **YES**.
Enter **PIN:**, **Enter AC:** or **Subscr. List Full** is displayed. In the latter case, your handset already has eight subscriptions and to add a new subscription you have to delete another.
3. If requested enter the PIN code for the handset (see page 58) and press **YES**.
Enter AC: is displayed.
4. Enter the authentication (PIN) code of the base station.
Each digit of the AC number that you enter is shown only as * for security purposes.
5. Press **YES** to confirm.
The handset now looks for base stations in subscription mode using the AC number to test if it is allowed to subscribe.
6. Wait until **Subscription Ready** is displayed for a short time.
The handset is connected to the base station. You can see its internal phone number on the right-hand side of the display.



In case of the following message, try to subscribe again:

- **Subscription Failed:** the AC number you have entered does not match the base station PIN code or the base station already has eight handset subscriptions. To add a handset you have to delete the subscription of another handset.



You can provide a personal identity for the base station. The name is arbitrary and is shown in the display when the handset is connected to the base station and on standby. See "Editing base station name" on page 81.

Subscribing another type of handset

Your base station functions can be fully utilized when used in combination with a DT200 handset. If it is used with another type of handset, there are a few functions that will not work.

Please refer to the handset documentation for subscribing another type of handset to the base station. To initiate subscription, you have to press the

PAGE button on the base station for at least two seconds. The base station remains in the subscription mode for about 5 minutes.

Cancelling the subscription of a handset

Up to eight handsets can be subscribed to a base station. If you want to subscribe a ninth handset, you must cancel the subscription of another.

To cancel a subscription of a handset:

Route: **BaseStation » Access » Desubscribe**

1. Select **Access** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **Desubscribe** and press **YES**.
Dev.Number: is displayed.
4. Enter the number of the handset whose subscription you want to cancel.
5. Press **YES** to confirm.
Either **Desubscribe Handset?** or **Handset not known** is displayed. In the latter case, you have entered a non-existent handset number.
6. Press **YES** to confirm.
The subscription for that handset is cancelled.

To cancel your subscription on the base station, please refer to “Deleting subscription” on page 82.

USING MULTIPLE BASE STATIONS

By using multiple base stations you can extend the coverage area of your handset.

When you set the handset to automatic base station selection (default), you can automatically connect to a subscribed base station but you cannot continue a telephone conversation while moving from one base station to another.

Multiple base stations on one telephone line

To be able to use the handset in a larger area, you can connect two or more base stations to the same telephone line. The number of base stations you can connect to one telephone line depends on local conditions. Please contact your dealer for further information

You need to subscribe the handset to each base station. The handset can have different internal numbers (1 - 8) on the various base stations.

Multiple base stations on multiple telephone lines

You can also use the handset with multiple base stations in various places, connected to different telephone lines. In this case, the handset can have different internal and external numbers at different times.

Connecting to a base station

To be able to use a certain base station, the handset must be subscribed and connected to that base station. A handset can be subscribed to multiple base stations, but can only be connected to one base station at a time. To connect to a base station please refer to "Selecting another base station" on page 80.

SINGLE OR MULTI-CELL MODE

Your base station can operate in the single-cell (stand alone) mode or in the multi-cell mode. In the multi-cell mode, the handset can be used in a larger area in which base stations work together as one unit. It is recommended that you leave your base station in the single-cell mode unless otherwise specified. This function is reserved for future use.

To set the cell mode:

Route: **BaseStation » Basic » CellMode**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **CellMode** and press **YES**.
The current cell mode is displayed.
4. Press **UP** or **DOWN** to select one of the following options:
 - **SingleCell** default setting; the base station operates in stand alone mode.
 - **MultiCell** the base station works together with other base stations to form a larger coverage area.
5. Press **YES** to confirm.
The cell mode is set.

USING A SWITCHBOARD

If the base station is connected to a switchboard, you can use its functions in the same way as with a conventional fixed telephone. The only difference is the absence of a telephone cable. One example of this type of function is transferring calls.

Telephoning using a switchboard

When you use a switchboard, it is sometimes necessary to wait for the dial tone before dialling a number. If the whole number is to be entered and displayed prior to dialling, for example a stored number, then you must indicate where in the number the handset should wait for the dial tone.

To include a pause (to wait for the dial tone) in a number, press ***** for one second. A dash appears in the handset display to show you where you have set the pause.

If there is a dash in a number, the handset waits a while for the dial tone. If you hear the dial tone, the handset continues dialling without waiting for the full dial tone pause period.

PULSE OR TONE DIALLING

Some telephone networks use pulses when dialling a number. If your cordless phone is set to pulse dialling, you can switch to tone dialling if required, for example to control a teleservice.

To switch the handset to tone dialling during a call:

Route: **DialMode** » **GoToDTMF**

- Select **GoToDTMF** and press **YES**.

The handset now uses tone dialling.

When you hang up, the handset goes back to pulse dialling. The pulse dialling setting stays when you switch off.

Which dialling method?

You can easily check whether tone or pulse dialling is required. Proceed as follows:

1. Check if the base station is set to tone dialling, see “Tone dialling” on page 73.
2. Press **YES**.
You hear the dial tone.
3. Dial the number of someone you know.
If the external line supports tone dialling, you hear the phone ring.

If you dial the number and still hear the dial tone, you have to set the base station to pulse dialling. See below.

Pulse dialling¹

To set the base station to pulse dialling:

Route: **BaseStation** » **Basic** » **PhoneLine**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **PhoneLine** and press **YES**.
The opposite of the current setting is displayed.
4. Scroll to either **GoToPulse** or **GoToDTMF**. If the display shows:
 - **GoToDTMF** press **NO** because the base station is already set to pulse dialling.
 - **GoToPulse** press **YES** to set the base station to pulse dialling.

¹. This function may not be supported by your telephone network operator.

Tone dialling

To set the base station to tone dialling:

Route: **BaseStation » Basic » PhoneLine**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **PhoneLine** and press **YES**.
The opposite of the current setting is displayed.
4. Scroll to either **GoToDTMF** or **GoToPulse**. If the display shows:
 - **GoToPulse** press **NO** because the base station is already set to tone dialling.
 - **GoToDTMF** press **YES** to set the base station to tone dialling.

SIGNALLING METHODS

If you use a telephone line with tone dialling, the base station transmits signals across the telephone line when you press the **R** key. Telephone networks or switchboards use either earth or hook flash as a signalling method. You will find details of which one is used in the appropriate documentation. You must set the base station to the appropriate signalling method for the telephone network or switchboard.

Earth signalling

Earth signalling can only be used with a suitable telephone line.

To set the earth signalling method:

Route: **BaseStation » Basic » PhoneLine**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **PhoneLine** and press **YES**.
The opposite of the current setting is displayed.
4. Scroll to either **GoToEarth** or **GoToFlash**. If the display shows:
 - **GoToFlash** press **NO** because the base station is already set to earth signalling.
 - **GoToEarth** press **YES** to set the base station to earth signalling.

Hook flash

Hook flash is a signalling method in a telephone network or on a switchboard and is initiated by pressing the **R** key on the handset. It is normally used for call transfer. Hook flash actually simulates an on-hook-off-hook sequence during a call. The length of such a sequence can be adjusted. In most cases the factory setting (default) is correct. You will find details in the appropriate documentation.

It is important to set the hook flash duration correctly. If it is set too short or too long the telephone network or the switchboard may not detect a hook flash or may even end the call.

The hook flash duration is limited to a certain range. If you try to exceed the range, the handset sounds a warning tone and defaults to the lower or upper limit.

To set the hook flash signalling method:

Route: **BaseStation » Basic » PhoneLine**

1. Select **Basic** and press **YES**.
PIN: is displayed.
2. Enter the PIN code for the base station (see page 58) and press **YES**.
3. Select **PhoneLine** and press **YES**.
The opposite of the current setting is displayed.
4. Scroll to either **GoToFlash** or **GoToEarth**. If the display shows:
 - **GoToEarth** press **NO** because the base station is already set to hook flash signalling.
 - **GoToFlash** press **YES** to set the base station to hook flash signalling.
Flash Time: and current duration in milliseconds are displayed.
5. Enter the required duration (**CLR** = delete; **UP** = move left; **DOWN** = move right). The last digit automatically defaults to **0**.
6. Press **YES** to confirm.
Hook flash signalling and its duration are set.

Hook flash duration

If you use hook flash signalling, you may need to change the hook flash duration. To change this, you have to go back to earth signalling first and then change the signalling method back to hook flash. See “Earth signalling” on page 73 and “Hook flash” above for the corresponding procedures.

TRANSFERRING CALLS

In general, you can transfer calls on a switchboard as described below. However, transferring calls may work differently on your switchboard.

To put a call on hold and dial another number, use the **R** key or the **NewCall** menu option. If you do not know the number by heart, use the **NewCall** option.

With the **R** key

You are on the phone and want to transfer a call.

To transfer calls to another extension:

1. Press the **R** key to put the current call on hold.
You hear the dial tone of the switchboard.
2. Enter the number of the extension to which you want to transfer the call.
If the extension is available, you hear it ring. You can wait until the call is answered.
3. Press **NO** to transfer the call, or press the **R** key to return to the caller.

With the 'NewCall' option

During a call, you may want to hold the call and dial another number, but you do not know the number by heart and want to look it up in the phone book, the who called list or the last dialled list.

To transfer calls to another extension:

1. Select **NewCall** and press **YES**.
2. Enter or search for the number of the extension to which you want to transfer the call, as normal.
3. Press **YES** to dial the number.
4. Wait for an answer.
If the person does not answer, or is busy, press **R** to return to the call.
5. If the second call is answered you can:
 - Return to the first call by pressing **R**.
 - Transfer the first call to the second party by pressing **NO**.

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Using base stations

CONNECTING TO BASE STATIONS

You can connect your handset to seven other base stations, as well as to the one that comes with your set.

Before you can connect to a base station, your handset must have access rights to that base station. These access rights are stored in a so-called subscription. You only have to subscribe to a base station once. When you are subscribed, you can make and receive calls whenever you are within range of that base station. A subscribed base station can be selected automatically or manually.

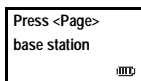
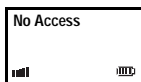
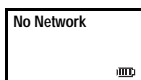
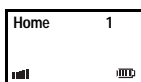
While subscribing to a base station, the handset receives an internal telephone number by which it can be called by another handset.

If your handset has a radio connection with a base station, this is shown by the signal strength indicator. If the indicator is visible, then you can make and receive telephone calls. If the indicator is not shown, then the handset is not connected to a base station. This may mean:

- You are out of range.
Check that the base station is on and that you are within range.
- There is no access to the selected base station.
The handset is not able to connect or its access rights may have changed. Set the handset to automatic base station selection (repeat if necessary) and if that does not help, subscribe the handset to the base station again.
- There is no subscription to the base station.
Subscribe the handset to the base station.

Out of range

If you are out of range, the handset warns you with short, fast, beeping sounds and a flashing warning light. The signal strength indicator is not shown. You must be within range to connect to a subscribed base station. Switching to automatic base station selection may remedy this (see "Selecting another base station" on page 80). Automatic base station selection may connect you to another subscribed base station.



Subscriptions

Up to eight base stations may be subscribed. The names of these base stations are stored in a prioritized list. In case of automatic base station selection, the handset tries to connect to the base station with the highest priority; first base station entry 1, followed by base station entry 2 etc. To change the base station priority, see “Selection priority” on page 80.

If you want to subscribe and no free entries are left in the subscription list, you have to delete an entry first. See “Deleting subscription” on page 82.

SUBSCRIBING TO A BASE STATION

In order to connect a handset to a base station, you must subscribe to that base station. Once subscribed to, the base station can be connected at any time, when within range. For subscribing to a BS230 base station, please refer to “Subscribing handsets” on page 68. The subscription procedure below is intended for other types of base stations.

In order to subscribe to a base station, an Authentication Code (AC) is required. Please consult the appropriate documentation.

Up to eight base stations may be subscribed and the identifying names of these base stations are stored in a list.

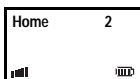
The identifying names of base stations can also be used as a personal identity for your handset. Each name could, for instance, be related to the relevant area when connected to that particular base station. To edit the base station name, while retaining the subscription data, please refer to “Editing base station name” on page 81.

If the handset does not have a subscription, it automatically enters the subscription mode when it is switched on. In this case, the handset displays **Press <page> base station** first and then **Enter AC:** appears. If so, you can skip step two and three of the procedure below.

To subscribe your handset to a base station other than the BS230:

Route: **Networks » Subscribe**

1. Ensure that the base station is ready to subscribe as indicated in the appropriate documentation.
2. Select **Subscribe** and press **YES**.
Enter PIN:, **Enter AC:** or **Subscr. List Full** is displayed. In the latter case, your handset already has eight subscriptions. You have to delete a subscription before you can add a new one.
3. If requested, enter the PIN code for the handset (see page 58) and press **YES**.
Enter AC: is displayed.



4. Enter the authentication code or the PIN code of the base station. Each digit of the AC number that you enter is shown only as * for security purposes.
5. Press **YES** to confirm. The handset now looks for base stations in subscription mode using the AC number to test if it is allowed to subscribe.
6. Wait until **Subscription Ready** is displayed for a short time. The handset is connected to the base station. You can see its internal phone number on the right-hand side of the display.

If you get the following message, try to subscribe again:

- **Subscription Failed:** the AC number you have entered does not match the base station AC number, or the base station cannot add another subscription.

RE-SUBSCRIBING TO A BASE STATION

Re-subscribing to a base station replaces the existing subscription data. Re-subscribing can be used to update the subscription data in the handset. For example, if telephone numbers change **Resubscribe** can be used to update them. This function is reserved for future use.

You can only re-subscribe to the currently connected base station. If necessary, first select the base station you want to re-subscribe to (see "Manual selection" on page 80).

This menu option is only available if the handset is connected to a base station.

To re-subscribe the handset to the currently connected base station:

Route: **Networks » Resubscribe**

1. Select **Resubscribe** and press **YES**. **Resubscribe?** is displayed.
2. Press **YES** to confirm. **Resubscribing** is displayed while re-subscribing takes places.

SELECTING ANOTHER BASE STATION

The handset can connect to several base stations. It can select a base station automatically when it has been out of range or switched on. You can also specify a base station to connect to.

Automatic selection

This menu option is only available if the subscription list contains base station names.

To have automatic base station selection:

Route: **Networks » SelectNet**

1. Choose **SelectNet** and press **YES**.
Automatic or the currently selected base station is displayed.
2. If necessary use the **UP** or **DOWN** key to select **Automatic**.
3. Press **YES** to confirm.
The handset is set to automatic base station selection.

The handset tries to connect to a subscribed base station in the order of the prioritized subscription list.

Manual selection

This menu option is only available if the subscription list contains base station names.

To specify the base station to connect to:

Route: **Networks » SelectNet**

1. Choose **SelectNet** and press **YES**.
Automatic or the currently selected base station is displayed.
2. Press **UP** or **DOWN** to find the base station you want from the list.
3. Press **YES** to confirm.
The handset tries to connect to the selected base station.

Selection priority

The handset can select a base station automatically when it has been out of range or switched on. In this case, it searches for the base stations in the order of priority starting with the first one on the subscription list. If you wish to change the order of your subscription list, the base station names can be rearranged using the **Priority** option.

This menu option is only available if the subscription list contains two or more base station names.

To change the order of the subscription list:

Route: **Networks » Priority**

1. Select **Priority** and press **YES**.
The first base station name on the list is displayed.
2. Use **UP** and **DOWN** to select the base station to be moved.
3. Press **YES**.
Pos. 1 is displayed.
4. Use **UP** or **DOWN** to select the new position in the list for the selected base station.
5. Press **YES** to confirm.
The base station is moved to the position you have chosen.

The selected base station is put into the required position on the list. The other base stations on the list are re-arranged accordingly, maintaining their relevant priorities. For example, if item 3 is moved to item 1 on the list; item 1 becomes item 2, item 2 becomes item 3 and the other items remain unchanged.

EDITING BASE STATION NAME

The name of each subscription entry can be set or amended to provide a personal identity for your handset. The name is arbitrary and is shown on the display when the handset is connected to that base station and on standby. The default name is **Home**.

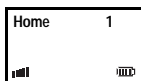
The default name **Home** only applies to base stations. For other types of telephone networks, the default name can be **Work** or **Public**, depending on the type of network.

This menu option is only available if the subscription list contains base station names.

To edit the base station name:

Route: **Networks » Rename**

1. Select **Rename** and press **YES**.
The first base station name in the subscription list is displayed.
2. Use **UP** or **DOWN** to select the name to edit.
3. Press **YES**.
Edit Name: is displayed.
4. Change the name (to a maximum of ten characters) using the **CLR** key (delete) and then the number keys. Press the key which has the first letter of the name you want. Press once for the first letter of the key, twice for the second and three times for the third letter of the key (**CLR** = delete; **UP** = move left; **DOWN** = move right; **1** = space; * = lower case).



5. Press **YES** when you finish.

The handset can display several special characters. Please refer to “Phone book use” on page 35 for more details.

DELETING SUBSCRIPTION

If a subscription is no longer required, you can remove it from the handset’s subscription list.

This menu option is only available if the subscription list contains base station names.

To remove a subscription from the handset:

Route: **Networks » Delete**

1. Select **Delete** and press **YES**.
Enter **PIN**: or the first base station name in the subscription list is displayed.
2. If requested, enter the **PIN** code for the handset (see page 58) and press **YES**.
3. Use **UP** or **DOWN** to find the subscription for deletion.
4. Press **YES**.
Delete? is displayed.
5. Press **YES** to confirm.

The subscription has been removed from the handset’s subscription list.

If you delete the currently active subscription, the handset disconnects and searches for another subscribed base station.

Tips and tricks

You can find a few useful tips and tricks in this section.

Putting a call on hold

You can put a call on hold in three ways:

- During an external call press **INT**. You can now transfer the call to another handset, return to the call or start a three-party call. See “Consulting with another handset or transferring a call” on page 31.
- During an external call press **R**. This and any further action is entirely dependent on the telephone network or switchboard used. See “Transferring calls” on page 75 for more details.
- Press **CLR** to switch off the microphone. See “Turning off the microphone” on page 27.

Starting a three-party call

You can start a three-party call by pressing **3**, if you have put an external call on hold and are having a conversation with another handset. See also “Making a three-party call” on page 32.

Paging handsets

To page handsets:

- Press **PAGE** on the base station.
Or
- Press ***** and then **INT** on a handset.

See also “Searching for handsets or people” on page 31.

Quick call by name

You can search for a number by name in the phone book without using the menus. See “Quick call by name” on page 24 for more details.

Entering a dial tone pause

To include a pause in a telephone number, press ***** for one second. A dash marks the pause. The base station waits for the dial tone for the length of the dial tone pause. See “Dial tone pause” on page 50 for more details.

Editing a name and number

If you edit a name or a number on your handset you can “jump” to the most left or the most right character by respectively pressing **UP** or **DOWN** for one second. You can clear the whole name or number by pressing **CLR** for one second.

Mute ringer temporarily

If your handset rings at an inconvenient moment, you can turn off the sound temporarily by pressing **CLR**. The ringer sounds again with the next call. See “Turning off the ringer and warning sound” on page 27 for more details.

Muting ringer and warning sound permanently

You can turn off the ringer and warning sound permanently by pressing **CLR** for second. If you press **CLR** during a call, you turn off the microphone. To turn the ringer and warning sound back on, press **CLR** for one second again. See “Turning off the ringer and warning sound” on page 27 for more details.

Reference

SAFETY INSTRUCTIONS

Do not place the base station near audio or video equipment. It may cause interference. The handset is not suitable for lifeline applications.

Intrinsic safety

Do not use the handset in conditions where there is a danger of electrically ignited explosions.

Exposure to sunlight, heat and moisture

Do not expose the cordless phone to direct sunlight for long periods. Keep the cordless phone away from excessive heat and moisture.

Battery disposal

Defective batteries must be returned to a collection point for chemical waste disposal.

Spare parts and accessories

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage. For more information see "Spare parts and accessories" on page 96.

Power failure

In the event of a power failure or flat battery, you cannot use the handset to make or receive calls.

TROUBLESHOOTING

These answers to frequently asked questions should help you solve problems with the cordless phone yourself.

How far can I go from the base station without the handset failing?

Indoor the range is up to 50 metres, outdoor up to 300 metres. The actual range may differ because of local circumstances.

Can somebody eavesdrop on me?

This is not possible because of the digital techniques and encryption which are used.

Do I get a warning before the batteries run out?

An alarm sounds when approximately fifteen minutes' calling time is left.

How can I subscribe a handset to a base station?

To subscribe a handset you need the authentication (PIN) code of the base station. How to subscribe is explained in "Subscribing to a base station" on page 78.

What should I do if the handset dials a number as soon as I press a key?

A direct call has been set. See "Direct call" on page 60.

What should I do if I do not hear anything when I pick up the handset and the red light on the base station is flashing?

The base station is not properly connected to the telephone line. Check the telephone line cable.

Why do I keep on hearing the dial tone after I have dialled a number?

If you dial a number and still hear the dial tone, you probably have to set the base station to another dialling method. See "Pulse or tone dialling" on page 72 for more details.

I cannot understand the language on the display. Why?

An incorrect language has been selected.

To correct this:

1. Press **CLR**.

The handset returns to the standby display.

2. Press 5 x **UP**, **YES**, 3 x **UP** and **YES**. Select the language of your choice from the list and press **YES**.

Some menu options are in another language on the display. Why?

These options are the base station menus which form a part of the handset menus. They are normally in the same language as the handset menus. If the handset language is not available, the base station chooses English by default.

To choose another default language:

1. Press **CLR**.

The handset returns to the standby display.

2. Press 4 x **UP**, **YES**, 3 x **DOWN**, **YES**, enter the PIN code for the base station (see page 58), 2 x **YES**. Select the language of your choice from the list and press **YES**.

I have entered an incorrect PIN code three times in a row. How can I set a new PIN code?

If you have entered an incorrect PIN code three times in a row, the current code is invalidated. If the handset PIN code is invalidated, the handset cannot be used any more. To reset the PIN code, see “Resetting the base station PIN code” on page 57 and “Unblocking the handset” on page 55.

I cannot switch on the handset by pressing NO for at least two seconds. Why?

Put the handset in the base station. If the display comes on, the battery is almost flat. Leave the handset in the base station to charge the battery. If the display remains off after charging, the handset is defective or the battery is not properly connected or may need replacing. See “Battery” on page 12.

I have placed the handset in the base station but the green charging light does not come on. Why?

Ensure that the handset is placed properly in the base station and the base station is on. If the battery is completely flat, leave the handset in the base station to charge the battery. The green charging light will turn on after a few minutes.

I know that someone is calling me, but the ring signal is not ringing. Why not?

If you can see the ring off icon, it means that the volume of the ring signal has been set to zero, or the ring signal is switched off temporarily. If the ring signal has been switched off temporarily, it comes back on when you hang up. For increasing the volume of the ring signal, see “Ring volume” on page 42.

I cannot call certain numbers. Why not?

Call barring is on or your call budget has been exceeded. For further details, see “Call barring” on page 61 and “Call budget” on page 64.

The external line light on the base station is flashing quickly. Why?

There is a problem with the connection between the base station and the telephone line. Check the telephone line cable. See “Preparing for use” on page 9.

I hear a warning tone and the signal strength indicator is not shown. What is wrong?

The handset is not connected to the base station. The handset is probably out of range. Bring the handset back within range of the base station.

It is also possible that the handset has not been subscribed or that the subscription has been cancelled. It could also mean that a base station other than the

one which you are close to has been selected. See “Subscribing handsets” on page 68 and “Connecting to base stations” on page 77.

I hear a warning tone and the battery icon is flashing. What is wrong?

The battery is almost flat. Put the handset in the base station to charge the battery.

The red light on the base station is on. What is wrong?

Nothing is wrong. The external line is busy.

I cannot use the phone book. What is wrong?

To begin with, the phone book in the handset is empty. To make use of the phone book, you have to add a few names and numbers. See “Adding name and number” on page 36.

If I press the R key nothing happens or the call is ended. Why?

If you press the **R** key a signal is sent to the telephone network or switchboard. You may have selected the wrong signalling method. See “Signalling methods” on page 73 for more information. If you have set hook flash as the signalling method, the hook flash duration may be incorrect. Please refer to “Hook flash” on page 74 for more details.

BUTTONS AND KEYS

On the flap of the cover of this user’s guide, you will see an illustration of the handset. The lists below explain the use of the buttons and keys on the handset and base station.

Handset

Key	Function
VOLUME UP and VOLUME DOWN	Earpiece volume louder/quieter.
YES	Make a call or answer a call. Confirm a menu option.
CLR	During call: microphone off. While entering text or a number: delete last letter or digit, delete whole line if held longer. If the handset rings: mute sound, mute ringer and warning sound permanently if held longer. Cancel a menu option, handset goes on standby.
NO/ON/OFF	If held for 1 second: switch handset on. If held for 1 second during standby: switch handset off. If the handset rings: mute sound. End a call. Cancel a menu option.








Key	Function (Continued)
UP and DOWN	Start menu. Scroll through menu options or lists. While entering text or number: move one character position, move to end or beginning if held longer.
INT	Make an internal call. During an external call: consult another handset.
R	During an external call: transfer a call (if supported).
*	Change case of previous and subsequent letters while entering text. If held for 1 second: insert dial tone pause (-) while entering a phone number.

Base station

Button	Function
PAGE	Pressed briefly: page or search handsets. Pressed longer: subscribe a handset.

DISPLAY ICONS AND TERMINOLOGY

A number of icons may appear on the handset display. They are shown inside the front cover of this user's guide. The lists below explain what the icons mean and the terminology which may appear on the display.

Icons	Meaning
Signal strength 	On: when the handset is connected to a base station. Four vertical bars means good reception and no bars means no connection.
Ring off 	On: ring signal muted or microphone off.
Key 	On: keys locked.
Hook 	On: handset is 'off hook'. Flashes: handset is ringing or a connection is being made.
Message 	Flashes quickly: new message received in the voice mailbox.
Call Info 	On: new unanswered entry in the who called list.
Battery 	On: battery charged; blocks indicate the battery level. Flashes: battery almost empty. Flashes quickly: the blocks flash successively; the battery is being charged. The steady blocks indicate the battery level.

Terminology used on display

Term	Meaning
AC	Authentication code.
DTMF	Dual tone multi frequency or touch tone, for dialling.
IPEI	International portable part equipment identity, unique identity assigned to your handset by the manufacturer.
PARI	Primary access rights identity, unique identity assigned to your base station by the manufacturer.
PIN	Personal identification number for security.

SIGNALS

The handset and the base station signal certain events audibly and visually as described below.

Handset

Signal	Meaning
Red warning light	Incoming call. Message waiting. Battery almost empty. Handset out of range or not connected. Baby phone call interrupted.

The handset also generates audible ring signals, alarm signals and warning tones, and key clicks.

Sound	Meaning
Ring signal	Incoming call.
Alarm signal	4 short beeps every 30 seconds: battery almost empty. 4 short beeps every 2 minutes: handset out of range or not connected.
Key click	You hear this each time you press a key (when selected).
Warning tone	You have pressed a key which has no function.

Base station

Signal	Meaning
Green bottom light	On: charging handset battery.
Red top light	On: external line is engaged. Flashes: incoming external call. Flashes quickly: no connection to external line.

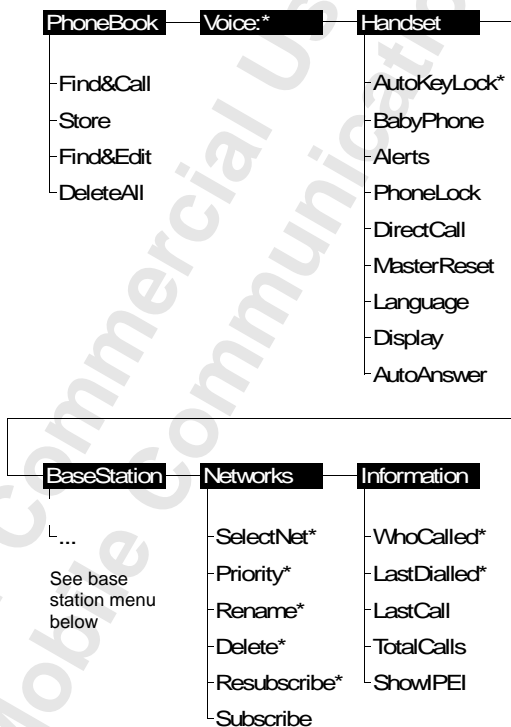
The base station generates a ring signal during an incoming call.

MENU STRUCTURE

Several functions of the handset and the base station can be accessed via the handset menus. The charts below give an overview of the top level menu items to help you locate those functions.

Standby menu

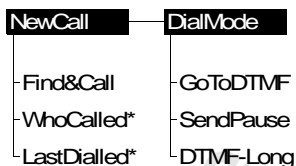
The standby menu is accessible when the handset is in standby mode by pressing **UP** or **DOWN** (see below).



* Available where applicable

“In call” menu

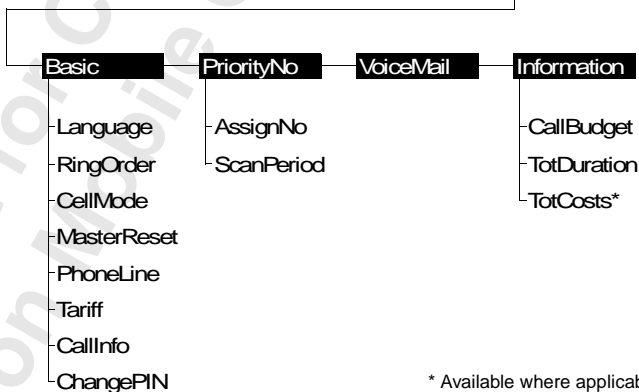
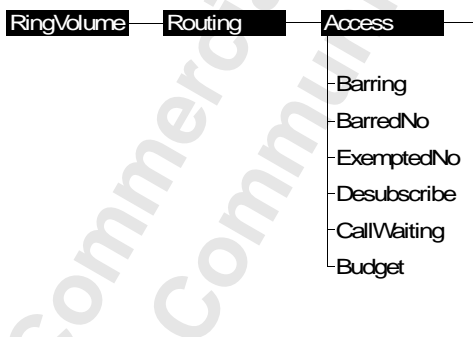
The “in call” menu is accessible by pressing **UP** or **DOWN** during a call.



* Available where applicable

Base station menu

The base station menu can be accessed via the **BaseStation** menu option of the handset's standby menu.



* Available where applicable

MAINTENANCE

The base station and handset do not contain user serviceable parts. If your base station or handset require service you should return them to the dealer or retailer from whom they were bought. See also “Warranty” on page 96.

Cleaning

Clean the cordless phone with a soft cloth moistened with water only.

The use of soap and other cleaning products can discolour and damage the cordless phone.

TECHNICAL SPECIFICATIONS

DECT/GAP

The cordless phone has the unique advantages of DECT/GAP (Digital Enhanced Cordless Telecommunications/Generic Access Profile). This means that no one can eavesdrop on your calls and that the quality of speech is as good as that of conventional fixed telephones. DECT/GAP enables interoperability with other manufacturers' products.

CE marking

The cordless phone has a CE marking according to the guidelines of the European telecommunications laws 73/23/EEC, 89/336/EEC and 91/263/EEC. The CE marking corresponds to the European marking law 93/68/EEC.

Handset

Power supply

Battery NiMH pack 600 mAh, 3.6 V

Standards and regulations

CE regulations	73/23/EEC, 89/336/EEC, 91/263/EEC and 93/68/EEC
CE marking	CE 0344 X
DECT standards	CTR6, CTR10, CTR22
Safety standards	EN60950
EMC standards	ETS 300 329

Maximum environmental values during use

Temperature	0 to +40 °C
Relative air humidity	20% to 75% non-condensing

Dimensions and weight

L x W x H	142 x 54 x 25 mm (excluding antenna and clip)
Weight	143 g (including batteries and clip)

Performance

Battery	NiMH, 500 to 1000 charge cycles
Standby time	up to 100 hours
Call time	up to 15 hours
Charge time	3 hours maximum

Volume

Ring signal	Seven step adjustable volume from off to 85 dB (A) at 30 cm
Earpiece	Ten step adjustable

Phone book

Maximum name length	12 characters
Maximum number length	24 digits
Entries	100

External interfaces

Radio connection	DECT/GAP, up to 250 mW radiated power during 1 of the 24 time slots
User interface	Display with two lines of 12 alphanumeric characters and 7 icons, keys with text, volume keys on the side.
Accessory connector	For battery charging. Audio accessory.

Features

Menu controlled, redial, difference between internal and external calls, phone book, redial (10 numbers), who called memory (10 numbers), baby monitor, illuminated display, temporarily transmit long DTMF tones, security with PIN code, keys can be locked automatically, access to up to 8 DECT/GAP telephone systems, key click on/off, battery meter, call duration indication.

Base station

Power supply

AC mains adapter	According to local standards
------------------	------------------------------

Standards and regulations

CE regulations	73/23/EEC, 89/336/EEC, 91/263/EEC and 93/68/EEC
CE marking	CE 0344 X
DECT standards	CTR6, CTR10, CTR22
Safety standards	EN60950
EMC standards	ETS 300 329
Fixed telephone line connection	According to national telecommunication requirements

Maximum environmental values during use

Temperature	0 to +40 °C
Relative air humidity	20% to 75% non-condensing

Dimensions and weight

L x W x H	144 x 140 x 52 mm (excluding stand)
Weight	260 g (including stand)

Performance

Handset subscriptions	8
Number of calls	1 external and 1 internal at the same time

Volume

Ring signal	Six step adjustable volume from off to 85 dB (A) at 30 cm
-------------	---

External interfaces

Fixed telephone line	Analogue subscriber signalling according to local standard, pulse ¹ or tone dialling (DTMF), 3 m telephone line, R key signal, handset units
Radio connection	DECT/GAP for 8 handsets, up to 250 mW radiated power
Power supply	3 m cable between adaptor and base station
Charge connection	Proprietary, suitable for this type of handset

1. This function may not be supported by your telephone network operator.

Installation

Mounting	Separately on stand or fixed to wall with wall mounter
----------	--

Features

Charging handset battery, pulse¹ or tone dialling (DTMF), transferring calls to another handset, transferring calls on a switchboard (R key signal), three-party calls, call barring, direct call, least cost routing, call budgeting, security with PIN code, adjustable ringing priority, base station ring signal, handset searching, handset subscription.

1. This function may not be supported by your telephone network operator.



SPARE PARTS AND ACCESSORIES

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage. Contact your dealer for more information.

- Charger XA200 with desk stand and wall mounter.
- Clip for handset.
- Wall mounter for base station.
- Desk stand for base station.
- Power adaptor for base station.
- Power adaptor for charger.
- Nickel metal hydride battery for handset.
- Battery door for handset.
- Additional DT200 handset.

WARRANTY

If your Ericsson product requires warranty service you should return the product to the dealer/retailer from whom it was purchased.

In the event of difficulty, details of our authorized service network are available from your local Ericsson subsidiary.

Our warranty

Ericsson warrants this product as being free of defects in material, design and workmanship at the time of its original purchase and for a period of twelve (12) months immediately thereafter.

What we will do

If, during the period of the warranty, this product malfunctions in normal use and service due to defective design, materials or workmanship, Ericsson will repair or replace, at its discretion, the product under the conditions stated hereafter.

Conditions

1. The warranty will be granted only if the original warranty certificate issued to the purchaser by the dealer is presented, and if the said warranty certificate stipulates the serial number of the purchased product and the date of purchase of the product. Ericsson reserves the right to refuse warranty service if this information has been removed or amended after the original purchase of the product. The original receipt/invoice will only be

accepted as a proof of purchase when presented to the dealer from whom the product was purchased.

2. The warranty is not applicable in circumstances other than defects in material, design and workmanship. The warranty does not cover the following:
 - Periodic checks, maintenance, repair and replacement of parts due to normal wear and tear, exchange of faulty batteries or upgrading of software due to changes in network parameters.
 - Damage to the product resulting from:
 - Abuse or misuse, including but not limited to the failure to use the product for its normal purposes or in accordance with Ericsson's instructions for use and maintenance of the product, or the installation or use of the product in a manner inconsistent with the technical or safety standards in force.
 - Repairs performed by non-authorized service workshops or opening of the unit by a non-authorized person.
 - Accidents, acts of God or any cause beyond the control of Ericsson, including but not limited to lightning, water, fire, public disturbances and improper ventilation.
3. This product will not be considered defective in materials, design or workmanship if it needs to be adapted, changed or adjusted to conform to national or local technical or safety standards in force in any country other than that for which the product was originally designed and manufactured. This warranty shall not reimburse such adaptations, changes or adjustments, or attempts to do so, whether properly performed or not, nor any damage resulting from them, nor any adaptation, change or adjustment to upgrade the product from its normal purpose as described in the product manual without the prior written consent of Ericsson.
4. Repair or replacement under the terms of this warranty shall not give a right to an extension to, or a new commencement of, the period of warranty. Repair or replacement under the terms of this warranty may be fulfilled with functionally equivalent reconditioned units. Exchanged parts or components will become the property of Ericsson.
5. This warranty does not affect the purchaser's statutory rights under applicable national legislation in force, nor the purchaser's rights against the dealer arising from the sales/purchase contract.

In the absence of applicable national legislation this warranty will be the purchaser's sole and exclusive remedy. Ericsson, its subsidiaries and distributors shall not be liable for any incidental or consequential damages for breach of any express or implied warranty relating to this product.

Not for Commercial Use
Ericsson Mobile Communications AB

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Handset quick reference

Telephoning

Switching handset on and off	NO for 1 second, NO for 1 second again
Making an external call	YES , dial number
Making an internal call	INT , dial internal number
Pre-dial	Dial number, YES
Answering a call	YES
Put on hold and then ...	INT , dial internal number
... transferring a call	NO
... back to external caller	INT
... three-party call	3
Call by name	Select PhoneBook , YES , Find&Call , YES , enter initial letter(s), YES , UP or DOWN , YES
Quick call by name	Enter initial letter(s), UP or DOWN , YES
Switching microphone off	CLR
Tone dialling (temporarily)	Select DialMode , YES , GoToDTMF , YES
Long tones (temporarily)	Select DialMode , YES , DTMF-Long , YES
Enable keys	UP or * , YES

Memory

Redial	Last called number: press and hold YES , YES 1 of the last 10: press and hold YES , UP or DOWN , YES
Returning a call	Select Information , YES , WhoCalled , YES , UP or DOWN , INT

Volume

Adjusting volume	VOLUME UP or VOLUME DOWN
Switching off ringer	CLR
Switching off alarm	CLR for 1 second

Menu

Activate menu	UP or DOWN
Select option	UP or DOWN
Confirm option	YES
Cancel option	NO or CLR

Web site

Please visit us at our web site:

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