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Ericsson R520

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INNOVATRON PATENTS

Please note:



Some of the services described in this manual are not supported by all networks. Such services are indicated by an icon in the left margin. *This also applies to the GSM International Emergency Numbers.* Please contact your network operator or service provider if you are in doubt whether you can use a particular service or not.

Please read the *Safe and Efficient Use* and the *Warranty* chapters before using your mobile phone.

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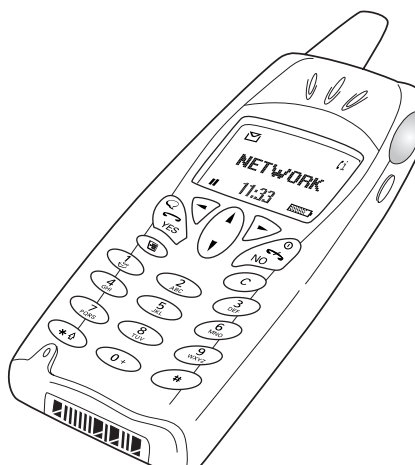
R520

Your R520 is a **Triple Band** phone (GSM 900/1800/1900) which means that you can use it almost all over the world. It contains a whole new set of functions helping you to be more efficient and productive, no matter where you are.

The R520 supports **GPRS** (General Packet Radio Services) which means data is sent in packages at a very high speed. This is of great advantage when using **E-mail** and the **WAP** browser, for example, since you can be connected all the time, yet pay only for the amount of data that you download.

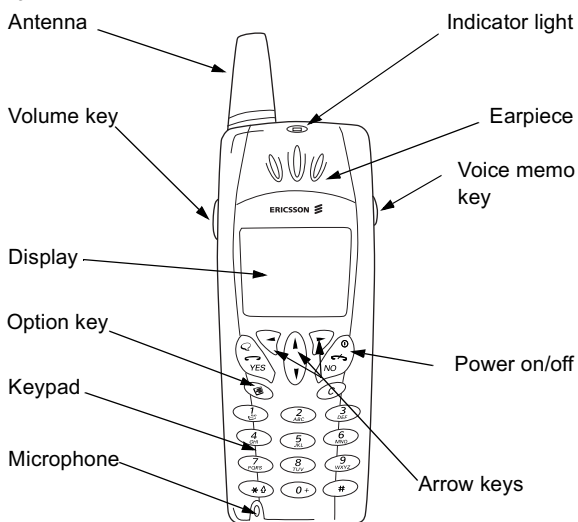
The R520 offers built-in **Bluetooth™** wireless technology. Short-range radio links make it possible for you to connect your phone wirelessly to different *Bluetooth* devices such as a headset, PCs, palmpads, printers and so on. You can synchronize meetings and contacts in your phone and your PC. You can also browse the Internet, wirelessly connected via your phone.

The advanced **Calendar** helps you to keep track of your meetings. You can create a phone book of **Contacts** in which you can save multiple numbers and voice labels for each person. You can write text messages more quickly and easily by using the **T9 Input** (predictive text input). The advanced **Voice Control** enables completely handsfree communication. The **Speakerphone** is another handsfree alternative.

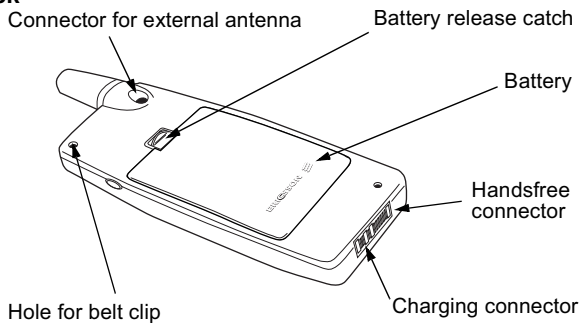


Preparing Your Phone

Front



Back



Assembly

You need to do the following to use your phone:

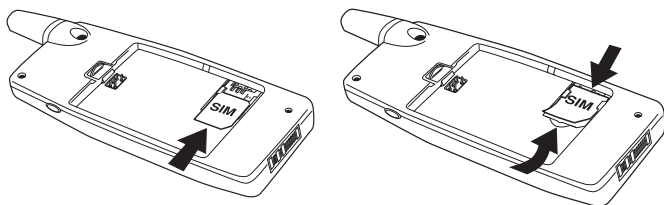
- insert the SIM card
- attach and charge the battery

SIM Card

Your network operator provides you with a SIM (Subscriber Identity Module) card. The SIM card contains information on your phone number, the services included in your subscription, and your phone book, among other things.

Note: *Turn off the phone and disconnect the charger and other accessories before you insert or remove your SIM card.*

Inserting and Removing the SIM Card

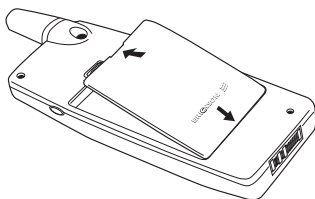


1. Remove the battery if attached. Slide the SIM card into the slot, under the silvery holders, with the golden connectors facing down.
2. To remove it, raise the edge of the SIM card and slide it out.

Battery

Your phone comes with a lithium battery. The battery is not charged when you buy your phone, but there may be enough power to turn the phone on.

Attaching the Battery



- Place the battery on the back of the phone and push until you hear a click.

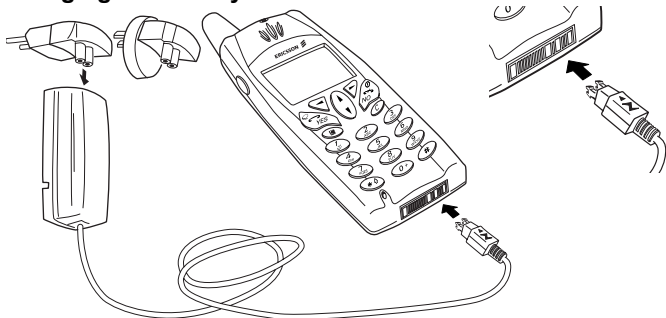
When to Charge the Battery

You can charge the battery that comes with your phone whenever you wish, without its performance being affected. You can also charge the battery when the phone is off. To remind you that you will soon need to charge the battery or replace it with a charged one:

- an alarm signal (a short beep) sounds and **Attention! Battery low** appears in the display.
- the indicator light on top of the phone starts flashing red.

With an Ericsson-approved battery, you can check the remaining talk and standby times in the **Status** menu by sliding the volume key up or down in standby mode. The total remaining standby and talk time depends on the type of battery you use and your position in the network. Please note that these times are approximate and you may have 10% less time than is shown in the display.

Charging the Battery



1. Make sure that the battery is attached to the phone.
2. Connect the charger to the mains.
3. Connect the charger to the phone as shown. The flash symbol on the plug must face upwards.

Note: *The mains plug may look different depending on the mains socket in your country. Do not connect it to any item other than your Ericsson Travel Charger CTR-10. Do not separate the charger from the plug when plugged into the mains socket.*

To indicate charging:

- the battery meter in the display pulses continuously
- the indicator on top of the phone shows a steady red light (or green, if the phone is switched on)
- **Optimized charging** is shown briefly in the display

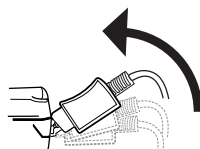
Note: *It may take several minutes before you get an indication of charging in the display, if you charge a new battery that is empty, or a battery that has not been used for a long time.*

When the battery is fully charged, the battery meter in the display is full and the indicator on top of the phone shows a steady green light.

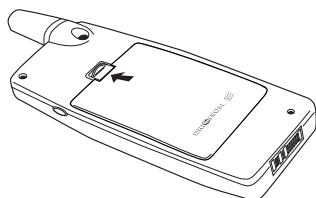
For the best charging, talk and standby times in the long run, we recommend that you use only Ericsson-approved batteries with your phone.

Disconnecting the Charger

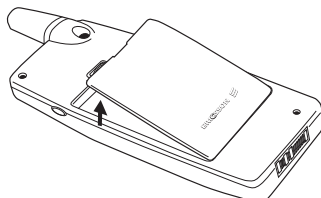
Tilt the plug up.



Removing the Battery



1. Slide the release catch up.



2. Lift the battery away from the phone.

Making Calls

Before you can make and receive calls, you need to turn on the phone and be within range of a network.

Turning Your Phone On

- Press and hold the **NO** key until you hear a tone.

The PIN

Most SIM cards are protected with a PIN (Personal Identity Number), which you need in order to access the network. If **PIN:** appears in the display after you have turned on the phone:

1. Enter your PIN. If you make a mistake while entering your PIN, delete the wrong number by pressing the **C** key.
2. Press **YES**.

If your PIN is entered incorrectly three times in a row, the SIM card is blocked. If this happens, you can unlock it by using your PUK (Personal Unblocking Key), which you also get from your operator. See “Locking the SIM Card” on page 90.

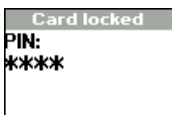
If **Phone locked** appears in the display, enter your phone lock code. See “Locking the Phone” on page 91.

Network Search

After you have turned on the phone (and entered your PIN), the phone searches for a network. When a network is found, the phone beeps three times. The indicator light on top of the phone flashes green and your network operator’s name (in most cases abbreviated) appears in the display. This is called standby mode. You can now make and receive calls.

If **New Sim card inserted** appears in the display, select if you want to use the SIM card as your standard SIM card or as an extra SIM card. See “Inserting a New SIM Card” on page 37.

Note: *If you do not reach standby mode, see “Error Messages” on page 109 or “Searching for Networks” on page 87.*



Making a Call

1. Enter the area code and phone number (note that some countries may not use area codes).
You can edit the number before calling by pressing .
2. Press **YES**.
3. Press **NO** to end the call.

Using the Call List

The numbers that you have dialled are always saved in the **Call list**. If your subscription includes the Calling Line Identification (CLI) service and the caller's network sends the number, you will also find the numbers (together with a name if saved in your phone book) of answered and missed calls in the call list. If the incoming call is a restricted number, the display shows **Withheld**. If the incoming call is an unknown number, the display shows **Unknown**.

You can delete a number by pressing **C**, **YES**.

The call list saves:

	Dialled numbers
	Answered calls
	Missed calls

The last 30 incoming and outgoing calls are saved together in chronological order. The last call made is saved in first position. If the same number is called more than once, the latest call replaces earlier ones. If you check a call within 24 hours, the time of the call is displayed. Otherwise, the time is replaced by the date.

To call a number from the call list

1. Press **YES** from standby mode.
2. Press  or  until the number you want to call is highlighted. You can edit the number before calling by pressing .
3. Press **YES**.

Note: *You can also find the Call list in the Call Info menu. Depending on whether a call is ongoing or not, either the Call info menu or the Ongoing call menu is shown.*

To clear the call list

1. Press  until you reach the **Call info** menu.
2. Press  until the **Options** sub-menu is highlighted, press **YES**.

3. Press  until the **Clear call list** sub-menu is highlighted, press **YES**.
4. The question **Call list clear?** appears. Press **YES** to clear the call list.

In the **Set call list** sub-menu in **Options**, you can turn the call list on or off. If you select **Off**, you are asked to clear the call list.

Automatic Re-Dialling

If the connection failed when you first called, the display shows **Retry?**. You can now re-dial the number by pressing **YES**. Your phone automatically re-dials (up to ten times):

- until the call is successfully connected. You hear a ring signal.
- until you press a key or receive a call.

Note: *Automatic re-dialling is not available for data calls.*

Making International Calls

1. Press and hold the **0** key until a **+** sign appears.
The **+** replaces the international prefix of the country from which you are calling.
2. Enter the country code, area code (without the leading zero) and phone number.
3. Press **YES**.

Making Emergency Calls

- Enter your international emergency number and press **YES**.

Your Ericsson phone supports the international emergency numbers. This means that it can normally be used to make an emergency call in any country, with or without a SIM card inserted, if a GSM network is within range.

Note: *Some network operators may require that a SIM card is inserted, and in some cases that the PIN has been entered as well.*

Some countries may not promote the international emergency numbers. Your operator may therefore have saved additional *local* emergency numbers on the SIM card.

To make an emergency call using a local emergency number

1. Press  to go to the **Phone book** menu.
2. Press  until **SOS numbers** is highlighted, press **YES**.
3. Press  until the number that you want to use is highlighted.
4. Press **YES** to make the call.

Showing and Hiding Your Number

Some operators offer subscriptions where your phone number can be hidden. You can choose to show or hide your number for a particular call, if your subscription supports the Calling Line Identification Restriction service (CLIR).

To hide or show your phone number

1. Enter the phone number you wish to call.
2. Press  until you reach the **Call info** menu.
3. Press  until **Next call** is highlighted, press **YES**.
4. Press  until **Hide my number** or **Show my number** is highlighted.
5. Press **YES** to make the call.

Tip: *You can use  to hide or show your number.*

Receiving a Call

When you receive a call, the phone rings and shows **Answer?**

If your subscription includes the Calling Line Identification (CLI) service and the caller's network sends the number, the caller's number is shown in the display. If the incoming call is a restricted number, the display shows **Withheld**. If the incoming call is an unknown number, the display shows **Unknown**.

Answering a Call

- Press **YES** to answer the call.

Rejecting a Call

- Slide the volume key on the side of the phone twice, or
- press **NO**.

The display shows **Busy tone**. The caller hears a busy tone if this is supported by the caller's subscription. If **When busy** is on, the call is diverted to the number you have specified. See "Diverting Calls" on page 79.

Missed Calls

If you have missed a call, the message **Missed calls: 1** appears in standby mode, where the number **1** indicates the number of missed calls.

1. Press **YES** to display the missed calls.
2. Press **YES** to call the number.

Note: *You can also see the missed calls list in the Call info menu. Missed calls are also saved in the call list.*

Turning Your Phone Off

- In standby mode, press and hold the **NO** key until you hear a tone.

During a Call

Earpiece Volume

During a call you can change the earpiece volume by sliding the volume key on the side of the phone.

- Slide up to increase the volume.
- Slide down to decrease the volume.

Microphone

During a call you can turn off the microphone.

- Press and hold the **C** key until **Muted** appears in the display.
- Press and hold the **C** key again to resume the conversation.

Tip: *Instead of pressing and holding the **C** key, you can put the call on hold by pressing **YES**.*

Speakerphone

You can use your phone as a speakerphone during a call, for example when you want others to participate in a conversation or when you need to have your hands free during the call. The speakerphone is not available when the IR link is on or when the phone is connected to a *Bluetooth* Home Base. We recommend that you use the speakerphone in a quiet environment.

To turn the speakerphone on or off

1. Scroll to **Ongoing call, YES**.
2. Select **Activate speakerphone** or **Deactivate speakerphone**.

You can also turn the speakerphone on or off by pressing .

When the speakerphone is on an icon appears. The speakerphone is always turned off when a call is ended. For safety reasons, the speakerphone function is automatically turned off when the phone is approximately 10 cm from your ear.

Warning! *While the phone is in speakerphone mode, do not hold the phone close to your ear as this may cause damage to your hearing. Hold the phone in front of your face around 30-50 cm away and speak into the microphone.*



Notepad

If you want to make a note of a phone number during a call, you can use your phone display as a notepad. Use the number keys to enter the number. When you end the call, the number remains in the display. You can call the number by pressing **YES**.

Turn Off Tones

If you use the phone display as a notepad, the person you are talking to will hear the tone signals as you press the keys. You can turn the tone signals off during a call.

To turn the tone signals on or off

1. Press  to go to the **Ongoing call** menu.
2. Press  until **Turn off tones** or **Turn on tones** is highlighted, press **YES**.

Tip: You can use  to turn tones on or off.

Sending Touch Tone Signals

To use touch tone services such as telephone banking or controlling an answering machine, you need to use codes. These codes are sent as touch tone signals (also known as DTMF – Dual Tone Multiple Frequency tones). If you press **0–9**, ***** and **#** during a call, these numbers and characters are sent as tone signals. You can save codes in your phone book and during a call, you can send the codes by pressing **Find and send**. See also “Touch Tone Services” on page 39.

Ciphering

Ciphering is a built-in feature that scrambles your calls and messages to provide additional privacy. An exclamation mark is shown in the display during a call to indicate that ciphering is currently *not* being provided by the network.

Key Functions

The table below explains some of the key functions. See also “Quick Keys” on page 141.

Press...	To
	make and answer calls. choose a menu, sub-menu or setting. voice dial, press and hold the key. enter the Call list, briefly press the key from standby.
	turn the phone on or off, press and hold the key. end a call. reject a call. go back one level in the menus, to leave a setting unchanged. get back to standby mode, press and hold the key.
 	enter and move within the main menus, briefly press  or  .
 	move (scroll) up or down through menus, lists and text.
 Clear	delete numbers and letters from the display. delete an item from a list. turn off the microphone during a call, press and hold the key. set the phone silent, press and hold the key from standby.
 Option key	enter a menu with options. The options vary depending on what function you are currently using.
Number keys	enter the numbers 0-9. enter the international prefix (+), press and hold 0. call your voice mail, press and hold 1. enter letters.
* ↑	enter *. shift between capital and lower-case letters.
	enter #.
Volume key	increase or decrease the volume of the earpiece or handsfree loudspeaker during a call. reject an incoming call, slide the key twice. enter the Status menu, slide the key quickly.

Press...	To
Voice memo key	record voice memos, press and hold the key. To enter or view the list of voice memos, press the key quickly.

Option key

The option key, , gives you the most common options for the function you currently use. Through the option key, you can always select **Exit to standby** and **Help**.

Menus

There are seven main menus. Each menu has several sub-menus. You enter the menus by briefly pressing  or . You also use these keys to move from left to right in the main menus. To move up and down in the sub-menus, use  and .

Moving through the Menu

There are two ways of moving through the menus:

- scrolling by using the keys
- using shortcuts

Scrolling by Using the Keys

Press...	to...
 or 	enter and move through the main menus.
 or 	move up and down through the sub-menus.
YES	select a menu, sub-menu or setting.
NO	go back one level in the menus or leave a setting unchanged. Press and hold NO to go back to standby.
	enter optional menus

Tip: *When in the menus, instead of pressing the keys repeatedly to reach the sub-menu that you want, you can press and hold the arrow keys or slide and hold the volume key.*

Using Shortcuts

A quicker way to move through the menus is to use the shortcuts. First briefly press  or  to enter the menus, then enter the number of the menu or sub-menu to which you want to go. To get back to standby, press and hold **NO**. See the example on the following page.

Instructions

In the instructions in this User's Guide we use the arrow keys to describe the functions and settings, since the shortcut numbers may vary between phones according to your subscription and network.

In this example of how to interpret the instructions, we are going to set the key sound to **Tone**.

To set the key sound

1. Scroll to **Settings, YES, Sounds & alerts, YES, Key sound, YES.**
2. Select **Tone** and press **YES.**

Interpret the instructions as follows:

1. From standby mode, use  or  to scroll to the **Settings** menu.
2. Press **YES** to select the menu.
You are now in the **Settings** menu.

The name of the menu that you have selected is shown at the top of the display.

3. Press **YES** to select the **Sounds & alerts** sub-menu.
4. Use  to scroll to the **Key sound** sub-menu.
Press **YES** to select the sub-menu.
5. Use  to scroll to **Tone**.
Press **YES** to select the **Tone** alternative.
You have now set the key sound to **Tone**.
To go back to standby mode, press and hold the **NO** key.

When using shortcuts, interpret the instructions as follows:

To set the key sound

1. Press  or  to enter the menus.
2. Press **4** to select the **Settings** menu.
3. Press **1** to select the **Sounds & alerts** sub-menu.
4. Press **8** to select the **Key sound** sub-menu.
5. Select **Tone** and press **YES.**

Display Text

When you move through the menus, the display changes.

- White text on a grey background at the top indicates the menu you have selected.
- White text on a black background indicates your position in the menus. Press **YES** to enter this menu or select this setting.
- Grey text indicates a function that is temporarily unavailable, for example due to your subscription or a certain setting which is not on.
- Text marked with a tick indicates the current setting or settings selected.
- Text marked with a filled button indicates the current setting selected.

Profiles	
1	Select profile
2	Edit profile
3	Profile name
4	Voice tag

Edit shortcuts	
1	Total time
2	Outgoing time
3	Ring volume
4	Select profile

Key sound	
1	Silent
2	Click
3	Tone

Help Texts

Your phone includes pop-up help texts that explain the sub-menus.

To turn the help texts on or off

1. Scroll to **Settings, YES, Display, YES, Menu help**.
2. Select **On** or **Off** and press **YES**.

Menu Language

Most modern SIM cards automatically set the menu language to the language of the country where you bought your SIM card, **Automatic**. If this is not the case, the pre-set language is English.

To change the menu language

1. Scroll to **Settings, YES, Language, YES, Menus, YES**.
2. Select a language and press **YES**.

To select a language that you want to use when writing text, see "Input Languages" on page 30.

Tip: *You can always select Automatic by pressing , 8888,  in standby.*

You can always select English by pressing , 0000,  in standby.

My Shortcuts

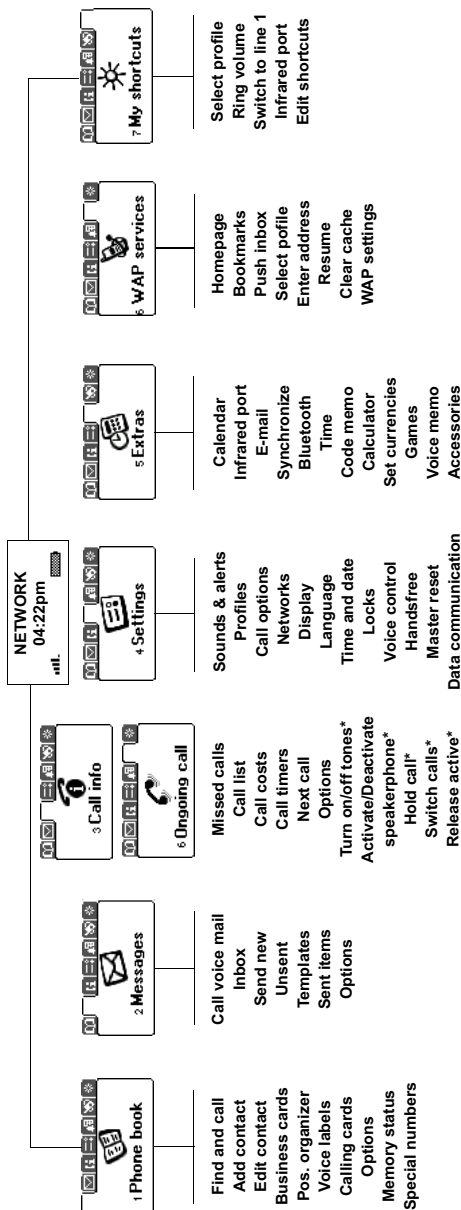
You can place your favourite settings in the menu **My shortcuts**. In this way, you can quickly and easily reach the settings you use most.

When you buy your phone, **My shortcuts** contains a few settings which you can remove if you wish. You can also add a setting from a list given in the **Edit shortcuts** menu.

To edit the settings in My shortcuts

1. Scroll to **My shortcuts, YES, Edit shortcuts, YES**.
2. Select or deselect a setting from the list by scrolling to it and pressing *****.
3. If you select a new setting, enter the position number you want for your setting in this menu. Press **YES**.
4. Press **YES** to save your settings and exit the list.

Tip: *You can reach the shortcut saved in the first position by pressing and holding  from standby.*



Depending on whether a call is ongoing or not, either the Call info menu or the Ongoing call menu is shown.

Please note that many of the menu alternatives are dependent on your network and subscription.

** Only available during a call.*

Personalizing Your Phone

Sounds

You can change the volume, ring signal and key sound according to your preferences. You can set a specific ring signal for a specific person so that you know who is calling by the ring signal. You can also compose your own melody and send it to another phone.

Note: *If you change a setting which is included in a profile, the profile is also changed. See “Profiles” on page 79.*

Ring Volume

You can set the volume to six levels. The first level means that two clicks are heard when you receive a call. You can also turn the ring signal off (0). An icon then appears in standby.

To set the ring volume

1. Scroll to **Settings, YES, Sounds & alerts, YES, Ring volume, YES.**
2. Use  or  to increase or decrease the volume.
3. Press **YES** to save the setting.

Tip: *Use the volume key to change the volume silently.*

Silent

You can set your phone to silent so that all signals except the alarm and timer signals are turned off.

To set the phone to silent

1. From standby, press .
2. Select **Silent on?** and press **YES**.
An icon appears in standby.
To cancel, repeat step 1 and press **YES** at **Silent off?**

Increasing Ring

You can select a ring signal, **Increasing ring**, that rises in steps from the lowest volume to the highest.



To turn the increasing ring on or off

1. Scroll to **Settings, YES, Sounds & alerts, YES, Increasing ring, YES.**
2. Select **On** or **Off** and press **YES.**

The increasing ring must be **Off** for the ring signal volume to apply.

Ring Signal Type

You can select a ring signal from a list of different sounds and melodies. See also “Composing Your Own Melodies” on page 25.

To select one of the existing ring signals

1. Scroll to **Settings, YES, Sounds & alerts, YES, Ring signals, YES, Voice calls, YES.**
2. Select the ring signal type that you want and press **YES.**

Tip: *Use the volume key to change the ring signal silently. The Low Pitch ring signal has been specially developed for people with hearing disabilities.*

Specific Ring Signals

If you subscribe to the Two Line Service, you can set different ring signals for the two lines. **Line 1** and **Line 2** are displayed instead of **Voice calls**. If your SIM subscription supports **Data calls**, you can set different ring signals for voice and data calls.

If your subscription includes the Calling Line Identification (CLI) service, you can assign a **Personal ring signal** to up to ten callers. If the last seven digits of a caller's number correspond to a number you have specified, then that caller's ring signal is used. You can include question marks in a phone number. For example, 012345??? means that calls from phone numbers between 012345000 and 012345999 will have the same ring signal. Press and hold # to insert a question mark.

To set a specific ring signal for a caller

1. Scroll to **Settings, YES, Sounds & alerts, YES, Ring signals, YES, Personal rings, YES, Add new?, YES.**
2. Enter the number of the caller and press **YES.**
You can also retrieve it from the phone book by pressing the option key .
3. Select a ring signal and press **YES.**

To delete a caller's number

1. Scroll to **Settings**, **YES**, **Sounds & alerts**, **YES**, **Ring signals**, **YES**, **Personal rings**, **YES**.
2. Scroll to the number you wish to delete and press **YES**.
3. Select **Delete** and press **YES**.

Composing Your Own Melodies

You can compose four different melodies to use as your ring signal.

To compose a melody

1. Scroll to **Settings**, **YES**, **Sounds & alerts**, **YES**, **My melodies**, **YES**.
2. Select **My melody 1**, **My melody 2**, **My melody 3** or **My melody 4** and press **YES**.
3. Press **C** to clear the display.
4. The keypad now works as a keyboard (see figure).

Use the keypad to enter notes:

- Press and hold a key to enter a long note.
- Press **0** to raise the note one octave.
- Press **#** once to raise the note one semitone.
- Press **#** twice to lower the note one semitone.
- Press ***** to enter a pause.

5. To listen to your melody, press **YES**.
6. Press **YES** again to save it or press **NO** to continue composing.

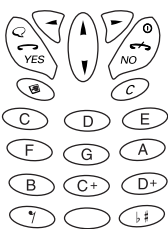
Tip: *You can also download existing melodies from the Ericsson Mobile Internet: <http://mobileinternet.ericsson.com>. See also "Starting the WAP Browser" on page 68.*

Exchanging Melodies

You can transfer your melodies to and from another similar phone or download your new melody from a computer or the Mobile Internet. You can send and receive melodies using *Bluetooth* wireless technology, the infrared eye or the Short Message Service (SMS). You need to tell the recipient that you are sending, since the recipient needs to activate the *Bluetooth* receiving mode or the infrared eye.

To send a melody

1. Scroll to **Settings**, **YES**, **Sounds & alerts**, **YES**, **My melodies**, **YES**.
2. Scroll to the melody that you want to send. Press **YES**.
3. Select **Send** and press **YES**.
4. Select a transfer method and press **YES**.



5. Continue as described in “Bluetooth Sending” on page 51, “Connecting IR Devices” on page 54 or “Sending Messages” on page 42.

To receive a melody

1. **New melody Play?** appears. Press **YES** if you want to hear the melody before you save it.
2. **Save melody?** appears. Press **YES**.
3. Select the position in the melody list in which you want to save the new melody and press **YES**.

Vibrating Alert

You can select to be notified of an incoming call by the buzzing of the **Vibrating alert**. You can set the phone’s vibrating alert to one of the following:

- **On** (all the time)
- **On if silent** (on when the ring volume is turned off or when you have set the phone to silent)
- **Off** (all the time)

To set the Vibrating Alert

1. Scroll to **Settings, YES, Sounds & alerts, YES, Vibrating alert, YES**.
2. Select a setting and press **YES**.

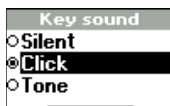
Note: *When your phone is placed in a desktop charger or a car handsfree kit, the vibrating alert is turned off automatically.*

Key Sound

You can choose which sound you want the keys to make when you press them. You can choose between clicks, tones or silent.

To set the key sound

1. Scroll to **Settings, YES, Sounds & alerts, YES, Key sound, YES**.
2. Select a key sound and press **YES**.



Display

You can personalize your phone display with a number of settings.

Display Light

You can set the display light to automatic, off or on. In automatic mode, the display light switches off a few seconds after you have pressed the last key.



To set the display light

1. Scroll to **Settings, YES, Display, YES, Light, YES.**
2. Select a display light setting and press **YES.**

Sleeping Display

To save the battery power, you can turn on the sleeping display. The text in standby mode reduces to one, scrolling, row at the bottom of the display a few minutes after you have pressed the last key.

To turn the sleeping display on or off

1. Scroll to **Settings, YES, Display, YES, Display sleep, YES.**
2. Select **On** or **Off** and press **YES.**

Start-up and Shut-down Shows

Greeting Text

When you turn on your phone, **ERICSSON** appears in the display. You can write your own greeting instead.



To write a new greeting

1. Scroll to **Settings, YES, Display, YES, User greeting, YES.**
2. Select **Custom** and press **YES.**
3. Write your new greeting.
4. Press **YES** to confirm your setting.

To set the standard greeting

1. Scroll to **Settings, YES, Display, YES, User greeting, YES.**
2. Select **Standard** and press **YES.**

To turn the greeting off

1. Scroll to **Settings, YES, Display, YES, User greeting, YES.**
2. Select **Off** and press **YES.**

My Numbers

My numbers shows your phone number(s). If your phone number cannot be retrieved from your SIM card, you can enter it yourself.



To enter your phone number

1. Scroll to **Settings, YES, Display, YES, My numbers, YES, Voice, YES.**
2. Enter the number and press **YES.**

Tip: *You can also enter your data number and the different numbers for Line 1 and Line 2, if these are supported by your subscription.*

Text Size

You can change the size of the letters and thus the number of visible rows in the display.

To change the text size and the number of rows

1. Scroll to **Settings, YES, Display, YES, Text size, YES.**
2. Select a text size and press **YES.**

Time Settings

The time is always shown when the phone is in standby mode.

To set the time

1. Scroll to **Settings, YES, Time and date, YES, Set time, YES.**
2. Enter the time in hours and minutes (you can move from number to number by pressing  or ), and press **YES.**
You are now asked whether you want to enter more time information, such as time zone and daylight saving time. Press **YES.**
3. Select a time zone from the list and press **YES.**
4. Select daylight saving time from the list and press **YES.**

To set the time format

1. Scroll to **Settings, YES, Time and date, YES, Time format, YES.**
2. Select the 24-hour or 12-hour (am/pm) clock and press **YES.**
If you select the 12-hour clock, you can alternate between am and pm by pressing **#.**

Automatic Time Zone

Your phone is equipped with an automatic time update function. When your phone changes network, and the time sent out from the operator deviates from the time in your phone, you are asked whether you want to update the time. If you press **YES**, the time is updated automatically.

To turn the Automatic Time Zone on or off

1. Scroll to **Settings, YES, Time and date, YES, Time format, YES, Auto time zone, YES.**
2. Select **On** or **Off** and press **YES.**

Date

When the phone is in standby mode, you can slide the volume key up or down to see today's date in the **Status** menu.

To set the date format

1. Scroll to **Settings**, **YES**, **Time and date**, **YES**, **Date format**, **YES**.
2. Select a date format and press **YES**.

To set the date

1. Scroll to **Settings**, **YES**, **Time and date**, **YES**, **Set date**, **YES**.
2. Enter the date according to the format you have chosen and then press **YES**.

Master Reset

You can reset the phone's settings to the way they were when you bought your phone.

To reset the phone

1. Scroll to **Settings**, **YES**, **Master reset**, **YES**.
2. Enter the phone lock code (**0000**) or the number you have changed it to. (See "Changing the phone lock code" on page 103.) Press **YES**.

Entering Letters

You can enter letters, for example, when you add names to the phone book, write text messages or enter WAP addresses.

Apart from the way you normally enter letters in your phone, you can use **T9 input** (predictive text input) for long texts such as text messages and e-mail, if the input language you select supports this. T9 input is a quicker way to write texts. See “Writing Using T9 Input” on page 32. For shorter texts, such as saving names in the phone book or writing WAP addresses, you always enter letters without T9 input, **abc...**

Input Languages

Before you start entering letters, you need to select the input languages that you want to use when writing.

To select input languages

1. Scroll to **Settings, YES, Language, YES, Input, YES**.
2. Scroll to the language that you want to use for entering letters and press *****.
Repeat step 2 if you want to use another language.
3. Press **YES** to exit the menu.

When writing, you can switch to another input language by pressing and holding **#** and then select **Input language**. See “The List of Options” on page 31.

Writing without T9 Input

For shorter texts, such as saving names in the phone book or writing WAP addresses, you always enter letters without T9 input, **abc...**

In the following example, we are going to write a text message:

To enter letters without T9 input

1. Scroll to **Messages, YES, Send new, YES.**
2. Press the appropriate key, **1–9, 0** or **#**, repeatedly until the character you want appears in the display.
See the table of the Latin alphabet below:

Press...	to get...
1	Space - ? ! , . : ; " ' < = > () _ 1
2	A B C Ä Å Æ à Ç 2 Γ
3	D E F è É 3 Δ Φ
4	G H I i 4
5	J K L 5 Λ
6	M N O Ñ Ö Ø ò 6
7	P Q R S ß 7 Π Σ
8	T U V Ü ù 8
9	W X Y Z 9
0	+ & @ / ¢ % \$ £ ¥ § ¨ ¡ ¢ £ ¤ ¥ ¤
#	# * ¸
C	to delete letters and numbers
*	to shift between capital and lower-case letters
0 - 9	press and hold to enter numbers
#	press and hold to switch alphabets

Example:

- To enter an 'A', press **2** once.
- To enter a 'B', quickly press **2** twice.
- To enter lower-case letters, press *****, enter the letter, for example an 'A'. An 'a' appears. Lower-case letters now appear until you press ***** again.

Tip: You can also use the volume key as a shortcut to certain letters:

To enter a 'B', slide the volume key up and press **2**.

To enter a 'C', slide the volume key down and press **2**.

The List of Options

If you press and hold  when writing, you enter a list of options:

- **Edit word** – for T9 input only
Edit the suggested word. If you want to delete the complete word, press **C**. If you do not want to delete the complete word, but edit it letter by letter, move the cursor by using  or  and then delete letters by pressing **C**. Enter letters by pressing the

appropriate key the number of times needed until you get the letter you want. When you are finished, press **YES**.

- **Add symbol**
Symbols such as ? and ! are shown. Move between the symbols by using the arrow keys. Press **YES** to select a symbol.
- **Accept word (1)** – for T9 input only
Accept the suggested word.
- **Candidates (0)** – for T9 input only
A list of alternative words is shown. Scroll to a word and press **YES**.
- **Rel. caps lock**
Switch between capital and lower-case letters.
- **Input Language**
A list of the input languages that you selected earlier is shown. If you want to change the input language for the text you are writing, scroll to a language and press **YES**.
- **Input method**
A list of input methods is shown. If you want to change the input method for the text you are writing, scroll to an input method and press **YES**.
- **Style**
Edit the text style, for example, choose bold or italic.
- **Help**
Explains T9 input.

Writing Using T9 Input

You can use T9 input when writing long texts such as text messages and e-mail. The T9 input method uses a built-in dictionary to recognize the most commonly used word for every sequence of key presses. This way, you can press each key only once, even if the letter you want is not the first letter on the key. When you have typed the whole sequence of key presses for your word, a word is suggested.

To enter letters using T9 input

1. Scroll to **Messages**, **YES**, **Send new**, **YES**.
2. Press **2, 6, 3**.
The word “and” appears.

If the word shown is the one you want:

- press **1** to accept and add a space.

If the word shown is not the one you want:

- press **0** to view alternative words. Accept a word and add a space by pressing **1**.

If you do not find the word you want by pressing **0**:

- press and hold **#** to go to a list of options. Select **Edit word**. Edit the word and press **YES**. The word is added to the dictionary.

3. Continue writing your message. See also “Sending Messages” on page 42.

Tip: *You enter a full stop by briefly pressing #.*

Turning off the T9 Input

If you wish, you can turn off the T9 input.

To turn the T9 input on or off

1. Scroll to **Settings, YES, Language, YES, T9 Input, YES**.
2. Select **On** or **Off**.

Phone Book

You can create your personal phone book by saving information about your friends and colleagues as a contact. In a contact, you can save details such as name, title, phone numbers, e-mail address and so on – all in one place.

Saving Contacts

For each contact you can fill in the following information: first name, last name, company, title, home phone number, work phone number, mobile phone number, other phone number, pager, e-mail address and WAP address.

To add a new contact

1. Scroll to **Phone book, YES, Add contact, YES**.
2. Scroll to the field you want to fill in, enter the information, press **YES**.
If you press , you enter a list of used but not saved numbers and you can select a number to add.
3. When you have filled in the information you want, scroll to **Save and exit** and press **YES**.
See also “To record a voice label for a contact” on page 82.

Note: *Each phone number saved occupies one position in the memory.*

Find and Call

To call a phone number saved in a contact, use the **Find and call** function. You can find the contact by searching for either first or last name, depending on which search order you have set.

To select a search order

1. Scroll to **Phone book, YES, Options, YES, Search order, YES**.
2. Select a search order and press **YES**.

To call a contact

1. Scroll to **Phone book, YES, Find and call, YES**.
2. You can:
 - enter the first letter of the contact name and press **YES**, or:

- press  to enter the list of recently called numbers. Select the one you want to call and press **YES**.

3. If the default phone number of the contact is the number you want to call, press and hold **YES**.

If you want to call another phone number, press **YES** to go to the contact.

Press  or  to go to the phone number you want to call.

Press **YES** to make the call.

Tip: *A quicker way to enter the “Find and call” menu is to press and hold  from standby.*

Shortcuts to Contacts

When in standby, you can find a contact by:

- pressing and holding one of the keys **2-9** to find a contact beginning with a specific letter.

For example, pressing and holding **2** takes you to the first contact beginning with the letter **A** (or closest following).

Shortcuts to Phone Numbers

When in standby, you can find a phone number by:

- entering its position number followed by **#**.

Once you are in the list of contacts you can use  or  to scroll through the list, or a letter to go to a certain contact.

To see the position numbers of the phone numbers that you have saved, go to **Phone book, YES, Position list, YES**.

Speed Dialling

You can call the phone numbers that are saved in positions 1–9 in the memory by entering the position number and then pressing **YES**, from standby. See also “Organizing Your Phone Book” on page 36.

Editing the Phone Book

You can edit a contact in the phone book with the **Edit contact** function.

Tip: *When you have selected a contact in your phone book, you can press  to edit it.*

To edit a contact

1. Scroll to **Phone book, YES, Edit contact, YES**.
2. Enter the first letter of the contact you want to edit. Press **YES**.
If the contact shown is not the one you want, press  or  until you find the correct contact.
3. Press **YES**.

4. Select **Edit name** or **Edit numbers** and press **YES**.
5. Press  or  to go to the details that you want to edit.
6. When editing, you can press  to see a list of used but not saved numbers. You can add such a number to a contact.
7. When you have made your changes, press **YES**. Scroll to **Save and exit** at the bottom of the list and press **YES**.

If you scroll to a certain contact in your phone book and then press and hold **YES**, the default phone number of the contact is dialed. You can select another default phone number for a contact, if you wish.

To set a default number

1. Scroll to **Phone book**, **YES**, **Edit contact**, **YES**.
2. Enter the first letter of the contact you want to edit. Press **YES**.
If the contact shown is not the one you want, press  or  until you find the correct contact.
3. Press **YES**.
4. Select **Default number** and press **YES**.
5. Select the number you want as the default phone number. Press **YES**.

To delete a contact

1. Scroll to **Phone book**, **YES**, **Edit contact**, **YES**.
2. Enter the first letter of the contact you want to delete.
3. Press **C** to delete the contact. [Contact] **Delete?** appears.
4. Press **YES**.

Tip: *Your contacts can be synchronized with a program running on a PC or a PDA. See "Synchronization" on page 60.*

Organizing Your Phone Book

You can organize your phone book so that the phone numbers you use most frequently are easily available. You can, for example, have certain numbers saved in positions 1-9 to be able to speed dial them.

To change position numbers

1. Scroll to **Phone book**, **YES**, **Position list**, **YES**.
2. Scroll to the phone number you want to move, press **YES**.
3. Select **Switch position** and press **YES**.
4. Scroll to the position to which you want to move the phone number.

5. Select **Switch positions** (the two phone numbers change positions) or **Overwrite** (the phone number in the last selected position is overwritten by the first selected phone number) and press **YES**.

You can also change positions of phone numbers within a contact.

To change positions of phone numbers within a contact

1. Scroll to **Phone book, YES, Position list, YES**.
2. Scroll to the position in which you want to place a certain phone number. Press **YES**.
3. If the position is occupied, select **Switch number** and press **YES**.
4. Enter the first letter of the contact you want to move.
5. Select the phone number you want in the selected position.
The numbers switch positions.

Inserting a New SIM Card

When you insert a new SIM card in your phone, the display shows **New SIM card inserted**. Select if you want to use the new SIM card as **Extra SIM** or **Standard SIM**.

- **Extra SIM**

You can access contacts and voice labels, but you cannot edit and delete them.

- **Standard SIM**

You can edit and delete all contacts and voice labels. You are asked to enter the phone lock code. The question **Keep current phone book in phone?** appears. If you press **YES**, the current phone book remains. If you press **NO**, all contacts and voice labels saved in the phone are removed.

Converting a SIM Card

You can convert an extra SIM card to be your new standard SIM card. If you do this, you can edit and delete the contacts.

To convert an extra SIM card to a standard SIM card

1. Scroll to **Phone book, YES, Options, YES, Convert SIM, YES**.
2. Enter the phone lock code.
3. The question **Keep current phone book in phone?** appears. Press **YES**. When the conversion is finished, **The phone book has been updated** appears.
If you press **NO**, **The phone book has been replaced** appears. All contacts and voice labels are deleted.

Your Business Card

You can add your own business card as a contact in the phone book. You can then exchange business cards with your colleagues via your phone.

To add or edit your business card

1. Scroll to **Phone book, YES, Business cards, YES, My own, YES.**
2. Select **Add my own** and press **YES.**
3. Proceed as in “To add a new contact” on page 34.

If you have already entered your own details as a contact, you may want to use this contact as your business card.

To use a contact as your business card

1. Scroll to **Phone book, YES, Business cards, YES, My own, YES.**
2. Select **Use as my own** and press **YES.**
3. Enter the first letter of the contact you want to use as your business card. Press **YES.**
4. If the highlighted contact is not the one you want, scroll through the list until you find the correct contact. Press **YES.**

To delete as own business card

1. Scroll to **Phone book, YES, Business cards, YES, My own, YES.**
2. Select **Delete my own.**
The entry is still available in the phone book, as an ordinary contact.

Exchanging Business Cards

You can exchange contacts and business cards between your phone and another similar phone, a PDA or a PC.

To send your own business card

1. Scroll to **Phone book, YES, Business cards, YES, Send my own, YES.**
2. Select a transfer method and press **YES.**
3. Continue as described in “Sending Messages” on page 42, “Bluetooth Sending” on page 51 or “Connecting IR Devices” on page 54.

To receive a business card

1. **Card received** and the name of the card owner appear.
To save the card in your phone book, press **YES.**
2. **Accept card?** appears. Press **YES.**

3. **Reply with own business card** appears. Press **YES** if you want to reply.

To send a contact

1. Scroll to **Phone book, YES, Business cards, YES, Find and send, YES.**
2. Enter the first letter of the contact and press **YES.**
3. Press **YES** again.
4. Select a transfer method and press **YES.**
5. Continue as described in “Sending Messages” on page 42, “Bluetooth Sending” on page 51 or “Activating the IR Port” on page 53.

To send the complete phone book

- Scroll to **Phone book, YES, Business cards, YES, Send phone book, YES.**

Note: *You cannot send the complete phone book via a text message.*

Touch Tone Services

In your phone book, you can save a phone number together with tone signals and codes. When you call this entry, the phone number and all the tone signal codes are then dialled automatically. This could be useful, for example, when controlling an answering machine or when using telephone banking services.

Note: *Saving personal codes in the phone book involves a risk if your phone is stolen. It is safer to save personal codes in the Code memo. See “Code Memo” on page 107.*

To save a phone number together with tone signals and codes

1. Scroll to **Phone book, YES, Add number, YES.**
2. After entering the phone number, press and hold the * key until the pause character **p** appears in the display.
3. Enter the code, then if needed, enter another pause, another code and so on.
4. Enter the name that you want to associate with the phone number and code and press **YES.**
5. Press **YES** to save.

Checking the Memory

With the **Memory status** function in your phone book, you can check how many positions you have left in your memory.

To check the status of your phone book memory

1. Scroll to **Phone book, YES, Memory status, YES**.
2. Use  or  to scroll through the list.

Text Messages

You can send and receive text messages with the Short Message Service (SMS) using your mobile phone. You can also send and receive e-mail, see “E-mail” on page 73.

Before Sending Messages

Before you send a text message or an e-mail for the first time, make sure you have made the settings below.

Service Centre

If you want to send or reply to a text message, your network operator’s service centre number must be set. Most SIM cards already contain the service centre number. In some cases you may have to activate it. You must obtain the number from your network operator.

To activate a service centre number on the SIM card

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Service centres, YES**.
2. Scroll to the number you want and press **YES**.
3. Select **Activate** and press **YES**.

If no number is found in the list, you have to set the number yourself.

To enter the phone number of your service centre

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Service centres, YES, Add new?, YES**.
2. Enter the number, including the international (+) sign and country code and press **YES**.

Message Options

You can create the settings below as default for all your messages, or you can turn on the option **Set on send**, which means that you choose the settings each time you send a message.

- **Message type**
You can select how you want your text message to be interpreted by the receiver, for example, as a text message or as an e-mail.
- **Validity period**
If your message cannot be delivered because the recipient has turned off the phone, your service centre can save the message to send it later, within a certain time period.

- **Reply request**

If you want the recipient of your message to reply, you can turn on the **Reply request** option. When you send a message, you are asked whether you want the recipient to reply or not.

- **Status request**

With this option on, you can view the status of a sent message. For more information, see “Status Report” on page 44.

To set a default value for the options above

1. Scroll to **Messages, YES, SMS, YES, Options, YES**.
2. Select the option you want and press **YES**.
3. Select **Set default** and press **YES**.
4. Select your default value from the list and press **YES**.

To turn Set on send on or off

1. Scroll to **Messages, YES, SMS, YES, Options, YES**.
2. Select the option you want and press **YES**.
3. Select **Set on send** and press **YES**.
4. Select **On** or **Off** and press **YES**.

Sending Messages

You use the keypad to enter the message you want to send. For information on how to enter text, see “Entering Letters” on page 30.

To send a message

1. Scroll to **Messages, YES, SMS, YES, Send new, YES**.
2. Enter your message and press **YES**.
3. Enter the recipient’s number or press  to retrieve the number from the phone book.
4. Press **YES** to send the message.

Sending msg appears in the display followed by **Message has been sent**.

Tip: *To see options for a sent message, select it from the Sent items menu and press .*

Saving the Message for Later Use

- Press **NO** before entering the phone number of the recipient. The message is saved in the **Unsent** menu.

To send a message later

1. Scroll to **Messages, YES, SMS, YES, Unsent, YES**.
2. Select the message you want to send and press **YES**.

3. Select **Send** and press **YES**.
You may now edit your message.
4. Press **YES** and send the message as described.

Tip: *To see options for an unsent message, select it and press .*

Linked Messages

A short text message can contain up to 160 characters. You can send a longer message, but it is automatically divided into several shorter messages (up to six messages) and you are charged for each message.

To turn long messages on or off

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Long message, YES**.
2. Select **On** or **Off** and press **YES**.

To send a long message

1. Scroll to **Messages, YES, SMS, YES, Send new, YES**.
2. Enter your message and press **YES**.
3. The display shows how many parts the message is divided into, **Message parts**:
4. Enter the recipient's number or press  to retrieve it from the phone book.
5. Press **YES** to confirm.

Note: *If the recipient's phone does not support long messages, the messages are received one at a time.*

Templates

If you have one or more standard messages that you often use, you can save these as templates in your phone. You can save up to ten templates consisting of up to 30 characters each.

To create a template

1. Scroll to **Messages, YES, SMS, YES, Templates, YES, Add new?, YES**.
2. Enter the message and press **YES**.
3. To send the message now, press **YES** when **Send message now?** appears in the display, and proceed as described in "Sending Messages" on page 42. The message is saved in the list of templates.
4. If you do not want to send the message now, press **NO**. The message is saved as a template for later use.

If you want to use a template as a message, scroll to **Messages, YES, SMS, YES, Templates, YES** and select the template you want from the list, then proceed as above.

To delete a template, scroll to **Messages, YES, SMS, YES, Templates, YES**. Select the template you want to delete and press **C, YES**.

Status Report

You can request a status report for a sent text message, providing your network supports the status report service. In the status report you can see if the message has been delivered or not.

To request a status report for a sent message

1. Scroll to **Messages, YES, SMS, YES, Sent items, YES**.
2. Scroll to the message you want a status report for and press **YES**.
3. Press **YES** again.
4. Select **Status request** and press **YES**.

To check the status of a sent message

- Scroll to **Messages, YES, SMS, YES, Sent items, YES, View status, YES**.

Receiving Messages

When you receive a message, the phone beeps (see “Message Signal” on page 46), the indicator light on the top of the phone rapidly flashes green and the message **New message Read now?** appears in the display.

To read the message at once

1. Press **YES** when you see the question **New message Read now?**
2. If you have received several messages, and you press **YES** at the question above, you enter the **Inbox**. Select the message that you want to read and press **YES**.
3. Scroll through the message by using the  and  keys. An arrow in the bottom right-hand corner of the display indicates that there is more text in the message. All parts of a linked message may not be received at the same time. ... indicates that part of the message has yet to be received.

Note: *If the sender of the message wants you to reply, the display shows ‘Reply requested Reply?’ when you press **YES** at the end of the message. Press **YES** again to reply. If you do not want to reply, press **NO**.*





To read a message later

- Press **NO** when you see the question **New message Read now?**. The message is saved in the phone and an envelope icon appears at the top of the display. If you want to read the message, you can retrieve it from the **Inbox** menu.

If you select a message in the **Inbox** and press , you can see a list of options: **Delete**, **Reply**, **Forward**, **Save**, **Call [number]**, **Mail to [e-mail address]**, **Save [number]**, **Save [e-mail address]**, **Read next**.

To delete a message

- There are three ways to delete a message:
 - Select **Delete** in the list of options and press **YES**.
 - Press **C**.
 - In the **Inbox** menu, select the message and press **C**.

To reply to a message

1. Select **Reply** in the list of options and press **YES**.
2. Select the way you want to reply to the message:
 - enter a new message
 - include the message you want to reply to and enter a reply
 - use a template and enter a replyand press **YES**.
3. Enter your reply and press **YES** to send the message.

To forward a message

1. Select **Forward** in the list of options, press **YES**.
2. You can now edit the message. Press **YES**.
3. Enter the recipient's phone number, or press  to retrieve it from the phone book, and press **YES** to send.

To save a received message

1. Select **Save** in the list of options and press **YES**. The message is saved on the SIM card. Messages that are saved on the SIM card remain there until you delete them.

Note: *If you save your messages on the SIM card, they are accessible if you use your SIM card with another phone.*

To call the sender of a message

- Select **Call** in the list of options and press **YES**.

Tip: *To call a phone number found in a message, press **YES** when the number is **highlighted** and then press **YES** again.*

To save a phone number found in a message

1. When the number is highlighted, press **YES**.
2. Select **Save [number]** and press **YES**.

To save an e-mail address found in a message

1. When the e-mail address is highlighted, press **YES**.
2. Select **Save [e-mail address]** and press **YES**.

To read an old message

1. Scroll to **Messages, YES, SMS, YES, Inbox, YES**.
 means an unread message.
 means that the message is saved on the SIM card.
2. Select the message you want to read and press **YES**.

Message Signal

You can choose the signal you want to hear when you receive a message. You can choose between clicks, tones or silent.

To set the message signal

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Message alert, YES**.
2. Select a signal and press **YES**.

Area Information

The ordinary Short Message Service is a personal service that carries your private messages. Area Information is another type of text message that is sent to all subscribers in a certain network area, for example a local traffic report or the phone number of a local taxi company. Please contact your network operator for further details.

To turn area information on or off

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Area info, YES**.
2. Select **On** or **Off** and press **YES**.

Area Information Message List

You can decide which types of area information messages you wish to receive. The number of area information codes that can be saved depends on your SIM card.

To insert an area information code

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Area info, YES, Edit list, YES, Add new?, YES**.
2. Enter the new code and press **YES**.



To delete the code

- If you want to delete a code, scroll to the code and press **C**.

Cell Information

The cell information channel is used by some network operators for sending messages to their subscribers within a certain network area.

To turn cell information on or off

1. Scroll to **Messages, YES, SMS, YES, Options, YES, Cell information, YES**.
2. Select **On** or **Off** and press **YES**.

Bluetooth™ Wireless Technology

Your phone has built-in *Bluetooth* wireless technology. Short-range radio links operate in a globally available frequency band and make it possible for you to connect your phone wirelessly to different *Bluetooth* devices such as a headset, PCs, palmpads, printers and so on. You can have a conversation via a cordless *Bluetooth* headset or browse the Internet wherever you are, wirelessly connected via a mobile phone. You can exchange information such as your business card, contacts, calendar appointments and tasks, ring melodies and game commands. You can automatically synchronize information in your phone and your PC. You may connect to several *Bluetooth* devices, but only one at a time.

Note: *For best performance, we recommend that your phone and the Bluetooth device you are communicating with are within a range of 10 metres, with no solid objects in between.*



Before You Start

Before you start communicating with another *Bluetooth* device, you need to ensure that:

- the *Bluetooth* function is on.
- your phone is paired with the device – you do this by adding the device to a list of paired devices in your phone.
- your computer is set for *Bluetooth* communication – for communication with a PC.

Note: *To browse the Internet via Bluetooth on a PC, you need to install the Bluetooth installation software which you can find on the Ericsson CD that comes with your mobile phone.*

Activating the Bluetooth Function

There are four different operation modes, depending on what you want the phone to do:

- **Off** – the phone cannot send or receive any information.
- **Automatic** – The *Bluetooth* function is activated automatically when you start sending information such as a business card or



when you receive an incoming call and are using the cordless headset, but the phone cannot receive any information.

- **On** all the time (until you change it) – the phone can send and receive information to and from a paired *Bluetooth* device.
- **Discoverable** – the phone can receive information from any *Bluetooth* device.

Note: *In countries where the use of **Bluetooth** wireless technology is not allowed, you must ensure that the **Bluetooth** function is set to Off.*

To turn the Bluetooth function on or off

1. Scroll to **Extras, YES, Bluetooth, YES, Operation mode, YES.**
2. Select **Off, Automatic, On** or **Discoverable** and press **YES.**

Usually, the *Bluetooth* function is turned off automatically after the communication has ended. You can also select **Disconnect active link?** to disconnect the devices.

Pairing

Your phone can be paired with up to ten *Bluetooth* devices. You can initiate the pairing between two *Bluetooth* devices from your own phone or you can accept a request for pairing from the other device.

To initiate pairing with a device

1. Scroll to **Extras, YES, Bluetooth, YES, Paired devices, YES, Add device?, YES, Phone initiates, YES.**
2. A list of device types that can be paired with your phone is shown. Scroll to a device type and press **YES.** If you are not sure about what type of device you want to pair with your phone, you can choose **All.**
3. Enter a passkey (up to 16 letters or numbers) for the device that you want to pair with your phone. (If the passkey does not come with the *Bluetooth* device when you buy it, you need to create one yourself.)
The phone starts searching for the device type you have selected.
4. When the search is finished, the display shows a list of available devices of the type you selected. Scroll to the device that corresponds to the passkey you entered and press **YES.**
5. When the pairing has been completed, you may edit the name tag for the device and press **YES.**

Tip: *See “Icons” on page 138 for information about icons that may appear in the phone display.*



To accept pairing with a device

1. Scroll to **Extras, YES, Bluetooth, YES, Paired devices, YES, Add device?, YES, Phone accepts, YES.**
2. Define a passkey for your phone. Enter this passkey on the requesting device.
The phone starts listening for the requesting device.
3. When the pairing has been completed, you may edit the name tag for the device and press **YES.**

You can edit the list of paired devices, for example by editing the name tag of a device, deleting a device from the list or by editing the order of the devices in the list.

To edit the name tag of a device

1. Scroll to **Extras, YES, Bluetooth, YES, Paired devices, YES.**
2. A list of paired devices is shown. Scroll to the device you want to edit and press **YES.**
3. Scroll to **Edit** and press **YES.**
4. Edit the name tag and press **YES.**

To delete a device from the list

1. Scroll to **Extras, YES, Bluetooth, YES, Paired devices, YES.**
2. Scroll to the device and press **C. Delete?** appears. Press **YES.**

To edit the order of the devices in the list

1. Scroll to **Extras, YES, Bluetooth, YES, Paired devices, YES.**
2. Scroll to the device whose position you want to change and press **YES.**
3. Enter the position number (2 - 10) you want for the device.
(Position 1 is always for the headset.)

Phone Name

You can decide a name for your phone. This name is shown in other devices as they get connected to your phone.

To enter a name for your phone

1. Scroll to **Settings, YES, Phone name, YES.**
2. Enter a name and press **YES.**

Searching for Devices

You can choose first to discover *Bluetooth* devices and then, for example, to pair the device with your phone, or to exchange business cards.

To discover devices

1. Scroll to **Extras, YES, Bluetooth, YES, Discover devices, YES**. When the discovery finishes, the display shows a list of discovered devices.
2. You can now choose to add the device to the list of paired devices as long as the list is not full.

Note: *The devices are not shown in the list of devices unless they are set to discoverable mode.*

Bluetooth Sending

To send an item such as a business card, a calendar appointment or a melody using *Bluetooth* wireless technology, you need to make sure that the devices are within ten metres of each other. See also “Before You Start” on page 48.

The procedure of sending items via *Bluetooth* wireless technology differs depending on the item you want to send. See “Exchanging Melodies” on page 23, “Exchanging Business Cards” on page 36 and “Exchanging Calendar Entries” on page 56.

To send an item from the phone to another device

- After selecting **Bluetooth** as the transfer method, a list of devices appears. Select the device you want to send the item to and press **YES**.

Bluetooth Printing

There are some items in your phone that you can send to a *Bluetooth* printer and have printed out. This can be useful if, for example, you want to print an overview of all the meetings that you have scheduled in your phone.

You can send an item to a printer in the same way as you send any other item to a device, see above. The only exception is sending calendar views to the printer.

To print calendar views

1. Scroll to **Extras, YES, Calendar, YES, Send, YES**.
2. Select a view: **View today, View week** or **View month** and press **YES**.
3. Scroll to the day, week or month you want to print and press **YES**.
4. Scroll to **Send, YES, Via Bluetooth, YES**.
5. Select the printer in the list of devices and press **YES**.

Example of items you can print via *Bluetooth* wireless technology:

- Monthly, weekly and daily overviews
- Your phone book
- Business cards
- Text messages

Infrared Port

Your phone is equipped with a port using infrared (IR) light as a communications link. With IR you can connect your phone to another similar phone, a PDA or a PC. You can send and receive, for example, calendar appointments and tasks, business cards, melodies and game commands.

Before you start communicating with another IR device, you need to ensure that:

- the IR link is on.
 - the IR devices are placed so that the IR eyes are facing each other.
 - the software for infrared communication is installed.
- You can find the software installation on the enclosed CD.

Note: *To be able to use the e-mail and browsing services you have to have PC programs for the respective services.*

Activating the IR Port

The IR port has three settings:

- **On.** The phone keeps searching for other IR devices until the port is turned off. When the IR port is set to on, an icon appears in the display.
- **Off.** The port is not active.
- **10 minutes.** The port is automatically turned off 10 minutes after the last data transmission.

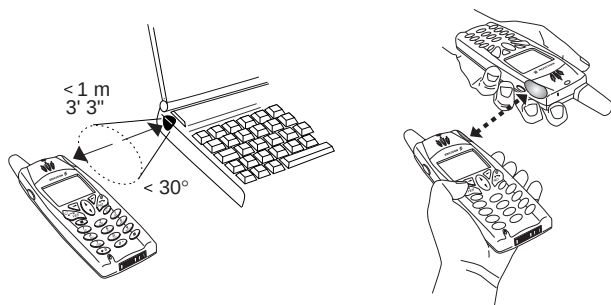
To set the IR port

1. Scroll to **Extras, YES, Infrared port, YES.**
2. Select **On, Off** or **10 minutes** and press **YES.**



Connecting IR Devices

Place your phone and the other device so that the IR eyes are facing each other. Make sure that the IR function is activated on both devices.



You can move the devices out of line for a short while (approximately 15-20 seconds) without interrupting the connection.

Strong sunlight can interfere with infrared light.

Phone Name

You can decide a name for your phone. This name is shown in other devices as they get connected to your phone.

To enter a name for your phone

1. Scroll to **Settings, YES, Phone Name, YES.**
2. Enter a name and press **YES.**

Calendar

The Calendar makes it possible for you to keep track of important meetings that you need to attend, phone calls that you need to make or tasks that you need to do.

Appointments and Tasks

You can save up to 200 appointments and tasks in your Calendar, depending on the size of each item. You can choose to add a new appointment or task, or use an old appointment or task as a template by copying and editing it.

- **Appointments:** meetings, vacation, phone call, etc.
- **Tasks:** make a phone call, send a message, pay bills etc.

Depending on whether it is an appointment or task, you can fill in different types of information about the appointments or tasks.

To add a new appointment

1. Scroll to **Extras, YES, Calendar, YES, Add appointment, YES, New appointment, YES**.
2. Select the type of appointment and press **YES**.
3. Enter subject, location, description and so on. Move between the rows by using  or .
4. Scroll to **Continue** and press **YES**.
5. Enter a summary for the appointment and press **YES**.
6. A list of options appears.

If you want to schedule an appointment:

- Select **Schedule** and press **YES**.
- Enter a start date and press **YES**.
- Enter a start time and press **YES**.
- Enter an end date and press **YES**.
- Enter an end time and press **YES**.

If you want to set a reminder:

- Select **Reminder** and press **YES**.
- Select when you want to be reminded and press **YES**.
- If you select **Other**, enter a reminder date and press **YES**. Enter a reminder time and press **YES**.

If the appointment is recurrent:



- Select **Recurrent app.** and press **YES**.
- Select the recurrence you want and press **YES**.
- If you want to set an end date, select **Set end date** and press **YES**. Enter a date and press **YES**.

If you want to change the class for your appointment:

- Select **Class** and press **YES**.
- Select the class you want and press **YES**.

If you want to add participants to a meeting:

- Select **Add participants** and press **YES**.
- Enter the first letter of the contact and press **YES**.
- Select the participant you want to add to your appointment and press **YES**. Repeat as above to add other participants.

If you want to set the time zone for a meeting:

- Select **Time zone** and press **YES**.
- Select a time zone and press **YES**. Your meeting time will be adjusted automatically according to the time zone you are in.

7. Confirm with **Save and close, YES**.

To add a new task

1. Scroll to **Extras, YES, Calendar, YES, Add Todo, YES, New Todo, YES**.
2. Select a category and press **YES**.
If the category is to do, select a type and press **YES**.
If it is a message, select a transfer method and press **YES**.
3. Enter a description, subject and so on and confirm each entry by pressing **YES**.

A list of options appears where you can enter what you need. In the message and task categories, you can also enter the names of the recipients from your phone book. See “To add a new appointment” on page 55.

Calendar Alert Signal

You can choose which signal you want for the calendar reminder.

To change the reminder signal

1. Scroll to **Settings, YES, Sounds & alerts, YES, Calendar alert, YES**.
2. Select a signal and press **YES**.

Viewing Your Calendar

To view your Calendar content, scroll to **Extras, YES, Calendar, YES** and then select one of the following:



- **View today.** Here you see all the appointments for today and the tasks that are not completed. An icon appears next to those appointments that cover the whole day.
- **View all Todos.** This contains all your entered tasks. Scroll to the task you want to view and press **YES**.
To see options for your tasks, press
- **View month.** This shows a whole month, with the current day surrounded by a square. Move within and among the weeks by using the arrow keys. Press **YES** to enter a certain week. Press **YES** again to enter a certain day. Press **C** to return to today's date. The number of the week is shown in the top left-hand corner. Days on which you have appointments are marked in bold.
- **View week.** This shows a whole week. All your appointments and tasks are shown as grey boxes. You enter a certain day by pressing **YES** when that day is highlighted.

Editing and Deleting

You may wish to edit an appointment or task, for example by changing the date or location.

To edit or delete an appointment

1. In the Calendar, scroll to the day of the appointment you want to edit and press **YES**.
If you want to delete the appointment, press **C**. **Delete?** appears, press **YES**.
2. To edit, press **YES** again to open the appointment.
3. Press **YES** again to go to the list of options.
4. Select **Edit** and press **YES**.
5. Proceed as described in "To add a new appointment" on page 55.
6. When you have finished, scroll to **Save and close** and press **YES**.

To edit or delete a task

1. Scroll to **Extras, YES, Calendar, YES, View all Todos, YES**.
2. Select a task and press **YES**.
If you want to delete the task, press **C**. **Delete?** appears, press **YES**.
3. To edit, press **YES** again.
4. Select **Edit** and press **YES**.
5. Proceed as described in "To add a new task" on page 56.
6. When you have finished, scroll to **Save and close** and press **YES**.

The List of Options

When you have selected an appointment or task, by entering one of the calendar views, you can press **YES** again to come to a list of options. You may now choose one of the following options:

- **Edit.** Enter the correct date, time etc. and press **YES** after each entry. When you finish editing the appointment or task, scroll to **Save and close** and press **YES**.
- **Delete.** Press **YES** to delete an appointment or task.
- **Send.** See “Exchanging Calendar Entries” on page 59.
- **Reschedule.** You can re-schedule an appointment. Select a week in the monthly view and press **YES**. Select a day in the weekly view and press **YES** to re-schedule the appointment to the selected day. Edit and press **YES**.
- **Copy.** You can use an old appointment or task as a template by copying and editing it. Select the task or appointment you want to copy and press **YES**. Press **YES** again and select **Copy**. Enter a category, description etc., and confirm each entry by pressing **YES**.
- **Call.** Select a task or an appointment that contains a phone number in the summary, and press **YES** to make the phone call.

Tip: *You can also press  to reach the list of options.*

Calendar Settings

To view your Calendar options, scroll to **Extras, YES, Calendar, YES, Options, YES**, and then select one of the following:

- **Status.** Use this to check when you last synchronized your Calendar, how much space is left for new appointments and tasks and so on.
- **Class view.** You can choose whether to see only the private calendar entries, only the public ones or both.
- **Reminders.** Turn on this function if you want your phone to remind you even though the phone is turned off.
- **Profile switch.** If you set the profile switch reminder function to **On**, the question **Switch profile?** appears when a meeting is about to start. Press **YES** to enter the list of profiles and select a profile. After the meeting, you are asked to switch profile again. If you set the Profile switch reminder function to **Auto**, the profile is switched automatically.
- **Delete all.** Deletes all appointments and tasks in the Calendar.

Exchanging Calendar Entries

You can send and receive appointments and tasks using *Bluetooth* wireless technology, the infrared eye or a text message. The infrared eye is turned on automatically when you start sending an appointment or task, but the *Bluetooth* function has to be set to **Auto** first. You must inform the recipient that you are sending information, since the recipient needs to turn on the *Bluetooth* **Discoverable** mode or the infrared eye.

To send an appointment or task

1. Select **Send** in the list of options.
2. Select a transfer method.

Continue as described in “Connecting IR Devices” on page 54, “Sending Messages” on page 42 or “Bluetooth Sending” on page 51.

To receive an appointment or task

- **Read appointment?** or **Read?** appears. Press **YES**.
The appointment or task is saved in the Calendar.
If your Calendar is full, you must remove calendar items before saving any new ones.

Synchronization

You can synchronize the calendar and contacts in your phone with the calendar and contacts in your PC. To do this, you first need to install a synchronization program on your PC. You can find such a program on the Ericsson CD that comes with your mobile phone.

If you have an Internet calendar, you can also synchronize that with your phone calendar, using WAP.

Starting the Synchronization

Before you start the synchronization, decide which synchronization method you want to use:

- **For synchronization with nearby devices:**
use the *Bluetooth* wireless technology, the infrared eye or a cable. If you want to use the *Bluetooth* wireless technology, you must first pair your mobile phone with the other device. See “To initiate pairing with a device” on page 49.
- **For synchronization with your Internet calendar:**
use WAP.
The first time you want to synchronize your phone with your Internet calendar you must make settings for this, see “Internet Calendar Synchronization” below.

To start the synchronization

1. Scroll to **Extras, YES, Synchronize, YES, Start synch, YES**.
2. Select the synchronization method you wish to use and press **YES**.
 - If you select **Use Bluetooth**:
Select **Synchronize with**. Select a device in the list, for example your PC.
 - If you select **Use IR**:
Make sure the infrared eyes of the phone and the other device are facing each other.
 - If you select **Use cable**:
Make sure the cable is connected properly.
 - If you select **Use WAP**:
See “Internet Calendar Synchronization” on page 61.

Synchronization Sound

You can select whether you want the phone to make a sound when synchronization is in progress.

To turn the synchronization sound on or off

1. Scroll to **Extras, YES, Synchronize, YES, Sound, YES**.
2. Select **On** or **Off** and press **YES**.

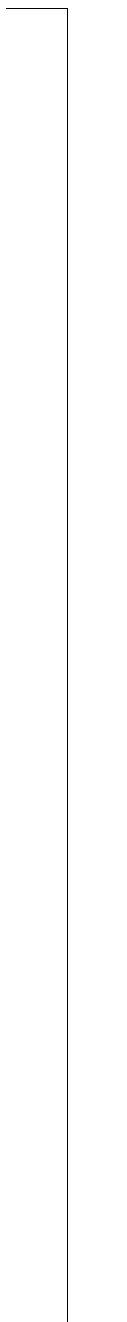
Internet Calendar Synchronization

Via WAP you can synchronize your mobile phone calendar with a calendar on the Internet. To do this you must have:

- **an Internet calendar program.** Contact your operator for more information about the Internet calendar. You need a user ID, password and Internet address for the calendar.
- **a WAP profile** set in your mobile phone. For information on how to set a WAP profile, see “WAP Profiles” on page 66.

To make the WAP synchronization settings

1. Scroll to **Extras, YES, Synchronize, YES, WAP parameter, YES**.
2. Select **WAP Profile, YES**.
In the list of WAP profiles, select the one you want to use for synchronization.
3. Select **Calendar userID, YES**.
Enter your user ID for the Internet calendar.
4. Select **Calendar pwd, YES**.
Enter your password for the Internet calendar.
5. Select **Synch URL, YES**.
Enter the Internet address of the Internet calendar.



WAP and E-mail Settings

In order to browse via WAP or use the e-mail program you must enter settings for a **Data connection** in your phone. The settings specify all the information your phone needs to communicate with a certain server, for example, the address to that server. You can have several Data connections saved in your phone, with different settings for different purposes. You receive the settings from your network operator or your Internet service provider.

Note: *The settings may already be entered when you buy the phone.*

The advantage of Data connections is that once you have defined the settings for a Data connection and named it, you do not have to enter the settings for it again. You can re-use it at any time. When you start working with WAP or e-mail, simply select the name of the Data connection you want to use for the activity. For more information, see “WAP” on page 66 and “E-mail” on page 73.

Access Types

The central setting for the Data connection is the **access type** (connection method). You can choose two access types:

- **GPRS (General Packet Radio Service)**
GPRS allows you always to be online, but only actually uses the connection while transmitting data. You pay for the amount of data transmitted and not the time you are connected.
It is a fast and efficient access type.
- **GSM data**
Data is sent continuously. This method suits large file transmission, especially video and multimedia files since the data flow is streamlined.

Creating Data connections

Your operator must provide you with settings for the access types (GPRS and GSM data), for example network addresses, user ID and password.

To create Data connections

1. Scroll to **Settings, YES, Data communication, YES, Data connections, YES, Add new?, YES.**
2. Enter a name for the Data connection.

3. Select an access type: **GPRS data** or **GSM data**.
4. Enter the settings that your operator has provided you with.

Explanation of the settings

Settings for GPRS

Access point name. Address to the external data network you want to connect to, either an IP address or a text string.

User ID. Your user ID to log on to the Internet with a certain Internet service provider.

Password. Your password to log on to the Internet with a certain Internet service provider.

Password request. You are asked for a password each time you start the e-mail function or WAP browser.

Preferred service. Select if you want to be able to accept incoming calls during a GPRS session or not.

IP address. IP address that identifies the phone to the network. If you do not enter a value, the network provides you with a dynamic IP address.

Advanced settings. Consult your network operator.

Settings for GSM data

Phone number. Phone number to your Internet service provider.

User ID, Password, Password request. Same as for GPRS above.

Dial type. Select analogue or digital connection.

Editing Data connections

You can edit all the parameters of a Data connection except for the access type (GPRS and GSM data). If you want to change access type, you have to create a new Data connection and select the access type you want to use.

To rename Data connections

1. Scroll to **Settings, YES, Data communication, YES, Data connections, YES**.
1. Select the Data connection you want to rename and press **YES**.
2. Select **Rename**.
3. Enter a new name and press **YES**.

To edit Data connections

1. Scroll to **Settings, YES, Data communication, YES, Data connections, YES.**
2. Select the Data connection you want to edit and press **YES.**
3. Select **Edit Data connection.**
4. In the list of settings, select the setting you want to edit and press **YES.** Enter your new information.
5. Repeat step 4 for all the settings you want to edit.

WAP

WAP (Wireless Application Protocol) is a global standard for advanced mobile services, for example, Internet communication, e-commerce and telephony services. WAP allows you to access certain services on the Internet from your mobile phone.

Note: *You must have a subscription that supports data transmission and WAP browsing.*

For fast and efficient browsing, try the **General Packet Radio Service** (GPRS) as connection method. For more information, see “Access Types” on page 63.

WAP Profiles

When you browse WAP sites, you use a certain **WAP profile**. A WAP profile is a collection of settings that determines, for example, how you connect to the Internet. The advantage of profiles is that you only have to enter the settings once. Different **Service providers** (distributors of WAP sites) may require that you have specific settings in order to access their sites.

There are three ways in which WAP profile settings can be entered into your phone:

- **The settings are already entered when you buy the phone.**
- **You receive the settings in a text message.**
Your network operator sends you a text message which contains all the necessary WAP settings for a WAP profile.
- **You enter the settings manually.**
Your network operator, your service provider or the company you work for must first provide you with the correct WAP settings.

If you have the settings in your phone, you do not have to read the instructions below on how to enter the settings manually. Instead, go to “Starting the WAP Browser” on page 68.

Note: *You may not need to enter all the settings below. Contact your network operator before you start changing the settings yourself.*

To enter WAP profile settings manually

1. Make sure you have created a **Data connection** between your phone and the WAP gateway, as described in “WAP and E-mail Settings” on page 63.
2. Scroll to **WAP services, YES, WAP settings, YES, WAP profiles, YES.**
3. Select the profile that you want to edit and press **YES.**
4. You can do the following:
 - **Rename.** Enter a name for the profile.
 - **Chg homepage.** Enter the address of the WAP site you want to have as home page.
 - **Gateway.** Configure the connection to the WAP gateway server. See “WAP Gateway Settings” on page 67.
 - **User ID.** Enter your user ID to the WAP gateway.
 - **Password.** Enter your password to the WAP gateway.
 - **WAP security.** See “Security” on page 70.
 - **Data mode.** Select a data connection mode.
 - **Show images.** View images while browsing.
 - **Response timer.** Set a time limit in seconds after which a download attempt will stop.
 - **Store to.** Select if bookmarks that you add should be available from all your WAP profiles or just the one you are currently using.

WAP Gateway Settings

If you want to connect via...	Select:
GPRS or GSM data	IP. Then enter the following settings: • IP address. IP address to the WAP gateway. • Select connection. Select the data connection you want to use when browsing. See “WAP and E-mail Settings” on page 63.
SMS	SMS. Then enter the following settings: • Service centre. Phone number to your Short Message Service centre. • SMS address. Phone number to the WAP gateway.

Note: *An IP address consists of four groups of digits, with a maximum of three in each group. If one of your digit groups*

consists of only one or two digits, you have to enter a leading zero (0) for each digit that is missing.

***Example:** If the IP address is 123.4.67.901, write 123.004.067.901.*

Starting the WAP Browser

Before you start using the WAP browser for the first time, you must select which WAP profile you want to use when browsing (a profile you have made settings for).

To select a WAP profile

1. Scroll to **WAP services**, **YES**, **Select profile**, **YES**.
2. Select a WAP profile and press **YES**.

To start browsing

1. Scroll to **WAP services** and press **YES**.
2. Select your preferred option:
 - Open your home page (Ericsson Mobile Internet is default).
 - Go to one of your bookmarks. Select **Bookmarks**, **YES**. Select a site from the list and press **YES**.
 - Enter the address of a WAP site. Select **Enter address** and press **YES**. Enter the WAP address, for example:
mobileinternet.ericsson.com

Note: *When you enter a WAP address, you do not need to enter the prefix http://. You only need to enter a prefix if you want to use a protocol other than http, such as ftp://.*

Exiting the WAP Browser

You can exit the browser in two ways:

- **Exit** - close down the WAP connection.
- **Suspend** - stay on-line but leave the browser.

To exit the browser

1. When browsing, press and hold **YES** until the **Options** menu appears.
2. Select one of the following:
 - **Exit** and press **YES**. The question **Remain connected?** appears. Press **NO**.
 - **Suspend** and press **YES**.

Options When Browsing

When you have started browsing, you can reach different browsing options by pressing the option key .

The options menu is dynamic. Its content may vary depending on which WAP site you are visiting, for example there may be special features and links.

The options menu always contains the following:

- **Homepage.** Go to the home page of the current WAP profile.
- **Bookmarks.** Add the site you are currently browsing to your list of bookmarks, or see the list of bookmarks for the current profile.
- **Enter address.** Enter the WAP address of a site you want to visit.
- **Send as link.** Send a message with a link to the current site to another phone.
- **Reload.** Refresh the contents of the WAP site.
- **Suspend.** Go back to the WAP services menu in order to access other phone menus. The connection to the Internet is not interrupted. When you want to start browsing again, scroll to **WAP services, YES, Resume, YES.**
- **Exit.** Exit the browser and go to standby mode.
- **Status.** Display the current status, for example how long you have been browsing.
- **New homepage.** Set the current site as the home page of the WAP profile you are using.

Options When Not Browsing

When you are not browsing, you can access several options.

Editing the Home Page of a WAP Profile

When you buy your mobile phone, Ericsson Mobile Internet is set to be your home page in each of the five WAP profiles that you have in your phone.

To edit the home page of a WAP profile

1. Scroll to **WAP services, YES, WAP settings, YES, WAP profiles, YES.**
2. Select the profile whose home page you want to edit and press **YES.**
3. Scroll to **Chg homepage** and press **YES.**
4. Enter the name of the home page, press **YES,** enter the address of the home page and press **YES.**

Using Bookmarks

You use bookmarks in your mobile phone just as you do in an ordinary Internet browser. You can have a maximum of 50 bookmarks.

To work with the bookmarks when not browsing

1. Scroll to **WAP services, YES, Bookmarks, YES**.
2. Select the bookmark you want to go to, edit or send, and press **YES**.
3. Select one of the following options and press **YES**:
 - **Go to bookmark**. Go to the marked WAP site.
 - **Edit bookmark**. Edit the name and/or the WAP address of the bookmark.
 - **Delete**. Delete the bookmark.
 - **Send as link**. This creates a text message in which the WAP address is sent as a link. You can add a comment if you want.

Clearing cache

You can clear the cache memory of previously visited WAP sites.

To clear the cache

1. Scroll to **WAP services, YES, Clear cache, YES**.
2. The question **Clear cache?** appears. Press **YES**.

Security

When you use certain WAP services you may want more security than normal, for example when using banking services.

You can establish a secure connection between your phone and the WAP gateway. To use such connections, you need to have **certificates** saved in your phone. If you have a certificate in your phone, it means you trust all WAP gateways that the certificate supplier (for example, a network operator) have certified. A certificate contains, for example, the name of the certificate supplier and an ID.

You can find and download certificates from certain WAP sites. Ask your network operator or service provider for the WAP address. Certificates may already be saved in your phone when you buy it.

To set a secure connection to on or off

1. Scroll to **WAP services, YES, WAP settings, YES, WAP profiles, YES**.
2. Select the profile you want to edit.
3. Select **Security, YES**.

4. Select **On** or **Off** and press **YES**.

To download a certificate

1. Browse to the WAP site where the certificates are.
2. Click a suitable link and follow the instructions to download the certificate to your phone.

To check the certificates in your phone

1. Scroll to **WAP services, YES, WAP settings, YES, WAP security, YES, Certificates, YES**.
2. You can see a list of the available certificates.

Locks (PIN codes)

There are two types of WAP security locks, (PIN codes), in your phone. The locks protect your subscription from unauthorized use when browsing. You receive them from your operator when you buy the phone.

- **Access lock.** Needed when accessing certain WAP sites or when you want to see your certificates. You may be asked to enter it before a secure WAP connection can be established.
- **Signature lock.** Used for confirming transactions - like a digital signature.

To change the lock codes

1. Scroll to **WAP services, YES, WAP settings, YES, WAP security, YES, Card locks, YES**.
2. Select the lock you want to change: **Access lock** or **Signature lock** and press **YES**. (The locks may have different names, depending on your network operator or your service provider.).
3. Select **Change PIN, YES**.
4. Enter your new lock code (4 to 8 digits) and press **YES**.

If you do not want to be asked for your access lock when browsing, you can turn this option off.

To turn the access lock on or off

1. Scroll to **WAP services, YES, WAP settings, YES, WAP security, YES, Card locks, YES**.
2. Select **Access lock, YES**.
3. Select **Protection, YES**.
4. Select **On** or **Off, YES**.



Transaction contracts

You can check which transactions you have made with your phone when browsing. Each time you confirm a transaction with your signature lock code, a contract, or receipt, is saved in your phone. The contract contains details about the transaction.

To check your contracts

1. Scroll to **WAP services, YES, WAP settings, YES, WAP security, YES, Contracts, YES.**
2. You can see a list of your contracts.

WAP Push Messages

You can receive **push messages** via WAP Services. This means that a service provider sends WAP content to your phone without you having to do anything. The benefit of this is that you can subscribe to updated news or new WAP settings from your service provider, for example.

There are two kinds of push messages:

- **Text messages** that inform you about a WAP site, with a link to the site. To go to the WAP site, click the link.
- **WAP sites** with the updated information appear, and the WAP browser starts automatically.

Accepting or Rejecting Push Messages

You can set your phone to either accept or reject push messages. This setting is valid for all your WAP profiles.

To set push message acceptance

1. Scroll to **WAP services, YES, WAP settings, YES, Push access, YES.**
2. Select one of the following settings:
 - **On.** You allow push messages.
 - **Off.** You do not allow push messages.

Receiving a Push Message

When you receive a push message, it comes to the **Push inbox**.

You can respond to a push message in one of the following ways:

- **Postpone.** Saves the message so that you can load it later.
- **Load.** Immediately starts the browser and loads the WAP site so that you can see the push content.
- **Delete.** Gets rid of the push message.

E-mail

You can use the e-mail function in your phone to send and receive e-mail messages.

Note: *You must have a subscription that supports data transmission.*

Settings Before You Start

Before you can use the e-mail program you must:

1. Create a **Data connection** between your phone and your e-mail server. See “WAP and E-mail Settings” on page 63.
2. Create an e-mail account in your phone.

To create an e-mail account

1. Scroll to **Messages, YES, E-mail, YES, Options, YES**.
2. Select **Edit accounts**.
3. Select **Add new** and press **YES**.
4. Enter a name for the account, for example, **Home** or **Office** for your home e-mail or your office e-mail, respectively.
5. Select **Connect using** and press **YES**.
6. A list appears with the data connections that you have saved in your phone. Select the data connection you want to use with this e-mail account and press **YES**.
7. Enter information for the rest of the settings in the list. You use the same e-mail settings in your phone as in your PC e-mail program. If you do not have an e-mail service, contact your operator to get all the necessary settings.

There are two optional settings:

- **Copy outgoing**
 - **On:** e-mail messages sent from your phone are also sent to an e-mail address of your choice. This way, messages that you send from your phone can be saved for future reference. Press **YES** to specify the e-mail address.
 - **Off:** e-mail messages sent from your phone are not copied to any e-mail address.
- **Check interval**

Select how often you want the phone to connect to your e-mail server and check for incoming e-mail messages.



You can have more than one e-mail account in your phone: for example, one for your business e-mail and one for your private e-mail. You can set which you want to use as default.

To select e-mail account

1. Scroll to **Messages, YES, E-mail, YES, Options, YES, Set account, YES**.
2. Select the name of the e-mail account you want to use as default and press **YES**.

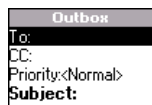
Send and Receive Option

The **Send & Receive** option on the **E-mail** menu offers the fastest way for you to check for incoming new e-mail messages and send e-mail messages saved in your Outbox.

Writing and Sending

To write and send new e-mail messages

1. Scroll to **Messages, YES, E-mail, YES, Compose**.
2. Select **To:** and press **YES**. You can:
 - select **Add name** and add a new name and e-mail address.
 - press  to enter the phone book and get a saved e-mail address.
3. If you want to send a copy of the message to someone, select **Cc:** and select the address as above.
4. Select **Subject:** and press **YES**. Enter a title and press **YES**. This is mandatory.
5. Select **Text:** and press **YES**. Enter your message and press **YES**.
6. Select one of the following:
 - **Send now**
The message is sent at once.
 - **Send with attachment**
The phone's infrared eye searches for an infrared camera in order to load images as attachments. See "Attaching Photos" on page 76.
 - **Save to Outbox**
The message is saved in the Outbox. All e-mail messages in the Outbox are sent when you select the **Send & Receive** option in the **E-mail** menu.



If you compose an e-mail message and do not send it, it ends up in the **Drafts** folder. You can open these messages, edit them and send them, at any time.

Receiving and Reading

To receive and read e-mail messages

1. Scroll to **Messages, YES, E-mail, YES, Inbox, YES**.
2. Press **YES** at the question **Check for new e-mail?**
3. Select the e-mail message you want to read and press **YES**.

Note: *E-mail messages are saved on your e-mail server, but not in your phone.*

You may not be able to see all your new e-mail messages at once, since the memory capacity of the Inbox is limited.

Replying and Forwarding

To reply to or forward an e-mail message

1. Open the e-mail message you want to reply to or forward.
2. Place the cursor in the text and press **YES** to display the list of options menu.
3. Select **Reply, Reply to all** or **Forward** and press **YES**.
 - **Reply** or **Reply to all**: enter a message and press **YES**.
 - **Forward**: enter a recipient and press **YES**.

Deleting

To delete e-mail messages

1. Go to the Inbox and select the e-mail message you want to delete.
2. Press .

Archiving

You can archive an e-mail message in order to read it later or if you want to save important information. You can only archive as much text as the display shows.

To archive an e-mail message

1. Open the e-mail message with the text you want to archive.
2. Make sure the text that you want to archive is visible in the display.
3. Place the cursor in the text and press **YES** to display the list of options.



4. Select **Copy to archive** and press **YES**. The text can now be found in **Archive** under the **E-mail** menu.

Attaching Photos

You can attach photos taken with a digital IR camera.

To attach a photo

1. Open or create an e-mail message.
2. Select **Send now with attachment**.
3. Make sure the infrared eyes of the phone and the camera are facing each other.
4. Start transmitting the photo from the camera. An infrared connection is established between the phone and the camera and the photo is loaded to the e-mail message as an attachment.
5. When the image has been loaded, the e-mail message is sent.

Data Calls

A data call is a call where information is sent between computers or servers via the built-in modem in your phone, for example, e-mail messages. To be able to send and receive data calls, you need:

- the appropriate computer program, such as an e-mail program.
- a phone subscription that supports data transmission.

For detailed information, please consult your network operator.

WAP browsing is a data call sent between your phone and an Internet server, not involving any computer program. See “WAP” on page 66.

Sending Data Calls

Data calls are initiated from the appropriate computer program. To send data calls you need to connect your phone to a computer via *Bluetooth* wireless technology, an infrared link or a cable and then start the computer program.

Receiving Data Calls

If you have separate numbers for voice and data calls, your phone recognizes the type of call.

Receiving Data Calls – Separate Numbers

If your network and subscription support separate numbers for the different types of call, the display shows which type of call you are receiving.

To receive a data call

1. Connect your phone to the computer.
2. Answer the call from within the computer program (if it is not answered automatically).

Note: *You cannot answer an incoming data call by pressing the **YES** key on the phone, but you can reject the call by pressing **NO**.*

Receiving Data Calls – One Number

If you have a SIM card that does not support separate voice and data numbers, the phone does not recognize the type of incoming call. If you want to receive a voice or data call, you first have to set the phone to one of these options in the **Next incoming** sub-menu.



To receive a voice or data call

1. Scroll to **Call info, YES, Next call, YES, Next incoming, YES.**
2. Select the call type you want (**Voice** or **Data**) and press **YES** to confirm your choice.
3. Connect your phone to the computer.
4. Answer the call from within the program.

Once you have set your phone for a specific incoming call, it stays like this until you change it.

Sending and Receiving E-mail from Your PC

You can use the phone's built-in modem to send or receive e-mail from your PC.

To send e-mail messages from your PC

1. Install modem drives on your PC for your phone's built-in modem. You do this from the CD that comes with your phone.
2. In the Dial-Up Networking service on your computer, select Ericsson R520 as the modem you wish to use.
3. Place your mobile phone next to your computer. Make sure it is connected according to the instructions for the transfer method you are using.
4. Start your e-mail program, then write and send a message.

To receive e-mail messages from your PC

1. See steps 1 and 2 above.
2. Start your e-mail program and open your Inbox to read your new e-mail messages.



Profiles

Your phone includes a number of pre-programmed profiles. A profile is a group of settings which are set to suit a certain environment. Some phone accessories select a profile automatically. For example, when you place your phone in a car handsfree unit, the **In car** profile is chosen.

Selecting a Profile

There are seven pre-programmed profiles:

- **Normal**
- **Meeting**
- **In Car**
- **Outdoors**
- **Portable h-free** (handsfree)
- **Home**
- **Office**

When you buy your phone, it is set to the **Normal** profile. You cannot create more profiles, but you can change the settings for a profile. You can also change the name of a profile, or add an accessory to any profile, except the **Normal** profile. A profile with no accessories associated, such as **Meeting** or **Normal**, must be chosen manually.

To select a profile manually

1. Scroll to **Settings, YES, Profiles, YES, Select profile, YES**.
2. Select a profile and press **YES**.

If you select a profile other than **Normal**, an icon and the name of the profile is shown in standby.

Using Your Voice

You can select a profile by using your voice, but you first need to activate the voice profile function and record a voice command. See “Changing Profiles” on page 84.

To select a profile using your voice

1. Press and hold **YES** until you hear a tone.
2. Release **YES** and say your voice command for the profile.



Tip: *You can make the phone remind you to switch profile, for example, before a meeting begins. See “Calendar Settings” on page 58.*

Changing the Profile Settings

You can use the **View profile** function to see what settings are included in a certain profile.

To view your profiles

1. Scroll to **Settings, YES, Profiles, YES, View profile, YES**.
2. Select the profile you want to view and press **YES**.
Now you can see the profile settings.

To change a profile setting

1. Scroll to **Settings, YES, Profiles, YES, Edit profile, YES**.
2. Select a setting and press **YES**.
3. Change the profile setting according to your wishes. The settings remain until you change them again.

To change the name of a profile

1. Scroll to **Settings, YES, Profiles, YES, Edit profile, YES, Profile name, YES**.
2. Enter a new name and press **YES**.

With the **Reset Profiles** function, you can change all profile settings back to the way they were when you bought your phone.

To reset the profile settings

1. Scroll to **Settings, YES, Profiles, YES, Reset profiles, YES**.
2. Answer **YES** if you are sure you want to reset all profiles.

Accessories

A specific profile is chosen automatically when you use the phone together with a certain accessory. Every time you disconnect your phone from the accessory, the profile is changed to the one which was active before.

Note: *Contact your local Ericsson retailer for more information about accessories.*

Adding Accessories to a Profile

You can add one or more accessories to a profile. For example, if you usually use a portable handsfree together with a specific charger, you may add the charger to the **Port h-free** profile. When you connect the phone to the charger the phone recognizes it and switches profile

automatically.

When you want to add an accessory to a specific profile, you must first activate that profile. See “To select a profile manually” on page 79.

To add an accessory to a profile

1. Scroll to **Settings, YES, Profiles, YES, Edit profile, YES, Accessories, YES.**

Now you are in the list of the accessories already associated with the profile.

2. Select **Add accessory?** and press **YES.**
3. Select an accessory and press **YES.**

Note: *You cannot have the same accessory associated with more than one profile.*

To remove an accessory from a profile

1. Scroll to **Settings, YES, Profiles, YES, Edit profile, YES, Accessories, YES.**
2. Scroll to the accessory that you want to remove and press **C.**
3. **Delete?** appears. Press **YES.**

Voice Control

With your phone, you can:

- voice dial - call someone by saying the name and number type
- answer and reject calls with your voice when using a handsfree kit
- change profile with your voice
- record or listen to voice memos by using voice commands
- activate the voice control by saying a “magic word”

Before Voice Dialling

Before you can start voice dialling, you need to turn on the voice dialling function and record your voice labels. When recording voice labels, make sure you are in a quiet environment.

To turn voice dialling on

1. Scroll to **Settings, YES, Voice control, YES, Voice settings, YES, Voice dialling, YES,**
2. Select **On** and press **YES**. Now you are going to record a voice label for each number type you use with your phone book contacts, for example “home”, “mobile” and so on.
3. Instructions appear. Press **YES**.
4. Select a number type and press **YES**.
5. Wait for the tone and say the number type that you want to save. The voice label is played back to you.
6. Press **YES** to save the voice label. If the recording is not OK, press **NO** and repeat step 4.

You also need to record voice labels for the name of each contact, for example “John”.

To record a voice label for a contact

1. Scroll to **Phone book, YES, Voice labels, YES, Add voice?, YES.**
2. Enter a name for the voice label and press **YES**.
3. Select a contact and press **YES**.
4. Follow the instructions in the display.

An icon appears next to the entries which have a voice label.



Caller Name

You can choose whether you want to hear the recorded voice label when you receive an incoming call.

To turn the caller name on or off

1. Scroll to **Settings, YES, Voice control, YES, Voice settings, YES, Caller name, YES**.
2. Select **On** or **Off**.

Voice Dialling

To make a call

1. Press and hold **YES** until you hear a tone.
2. Release **YES** and say a name, for example “John”. The voice label is played back to you.

If you have saved several numbers for that contact:

- After a second tone, say a number type that you have recorded earlier, for example “home”.

The voice label is played back to you, and the call is connected.

Instead of pressing and holding **YES**, as in step 1 above, you can initiate voice dialling, voice profiles and voice control of voice memos by:

- sliding and holding the volume key (useful in the car kit).
- pressing and holding the handsfree button (when using a portable handsfree or a *Bluetooth* headset).
- saying the magic word. See “The Magic Word” on page 85.

Voice Answering

You can answer or reject incoming calls by using your voice, when using a portable handsfree, a car handsfree, a desktop charger or the speakerphone.

To turn on voice answering

1. Scroll to **Settings, YES, Voice control, YES, Voice settings, YES, Voice answering, YES**.
2. Select the accessories you want to be able to use with voice answering.
3. Press **YES** to continue.
4. Follow the instructions, say “Answer”, or another word, and press **YES**. If the recording was not OK, repeat step 3.
5. Say “Busy” and press **YES** to save your recordings.

To answer an incoming call using your voice

- When the phone rings, say “Answer”.
“Answer” is played back to you and the call is connected.

To reject an incoming call

- When the phone rings, say “Busy”.
“Busy” is played back to you and the call is rejected. The caller hears a busy tone.

Changing Profiles

If you record voice commands for your profiles, you can change profile with your voice.

To turn on and record voice profile commands

1. Scroll to **Settings, YES, Voice control, YES, Voice settings, YES, Voice profiles, YES**.
2. Select **On** and press **YES**.
3. Select a profile and press **YES**.
4. Follow the instructions in the display. Repeat steps 3 and 4 to record voice commands for the other profiles.

To change a profile using voice commands

1. Press and hold **YES** until you hear a tone.
2. Release **YES** and say a profile command. The voice command is played back to you and the current profile is changed.

Recording Voice Memos

Instead of using the voice memo button, you can record voice commands to start a voice memo recording or to listen to voice memos.

To turn on and record voice memo commands

1. Scroll to **Settings, YES, Voice control, YES, Voice settings, YES, Voice memo, YES**.
2. Select **On** and press **YES**.
3. Follow the instructions in the display.

To start a voice memo recording using a voice command

1. Press and hold **YES** until you hear a tone.
2. Release **YES** and say “Record”. The voice command is played back to you and a tone indicates that the recording has begun.
To end the recording, press **YES**.

To listen to voice memo recordings using a voice command

1. Press and hold **YES** until you hear a tone.
2. Release **YES** and say “Play”. The voice command is played back to you.
3. Listen to your voice memo recordings. Press **NO** to stop listening.

The Magic Word

You can record a magic word and use it as a voice command to allow totally handsfree access to Voice control. Instead of pressing and holding **YES**, you say the magic word and then one of your recorded voice commands or a name that you want to call. The magic word is especially suitable when driving a car with a car handsfree kit installed, because you use external power instead of the battery power of your phone.

Tip: *Choose a long, unusual word which can easily be distinguished from ordinary background speech.*

To turn on and record the magic word

1. Scroll to **Settings, YES, Voice control, YES, Voice settings, YES, Magic word, YES**.
2. Select **On** and press **YES**.
3. Follow the instructions in the display.

Turn off the magic word when you no longer need totally handsfree access, in order to save the battery power.

Editing Your Voice Commands

In the Voice Command Browser you find all your voice labels and voice commands. You can keep them up to date by re-recording them, editing the name or deleting the ones you do not use.

To re-record a voice command

1. Scroll to **Settings, YES, Voice control, YES, Voice commands, YES**.
2. Select the type of voice command and press **YES**.
3. Select a voice command and press **YES**.
4. Select **Replace voice** and press **YES**.
5. Follow the instructions in the display.

You can also edit your phone book voice labels in **Voice labels** or in **Edit contact** in the **Phone book** menu.

Problems when Recording

If your phone cannot detect speech, one of the following might have happened:

- you spoke too softly – try speaking more loudly
- you held the phone too far away – hold it as you do during a call
- the voice label was too short – should be around one second long
- you spoke too late or too soon – speak immediately after the tone

Voice Memo

With the voice memo function, you can record up to 90 seconds of your own messages or parts of calls.

Recording Voice Memos

You can initiate a voice memo recording at any time, including during a call. The voice memos are saved in your mobile phone and can be accessed even if you change your SIM card.

To record a voice memo

- Press the voice memo button until you hear a tone and then release it. When the recording starts, the display shows **Recording** together with the remaining recording time and an icon.

To end the recording

- Press the voice memo button. The display shows **Voice memo saved**.

Tip: *You can start recording or listening to voice memos with a voice command. See “Recording Voice Memos” on page 84.*

The recording stops automatically if you receive an incoming call or when the call ends. You hear a tone five seconds before the voice memory is full.

Who to Record During Calls?

If a call is in progress and you start recording a voice memo, your phone starts recording the other person by default. You can choose to record either yourself or the person you are talking to during a call.

To select who to record

1. Scroll to **Extras, YES, Voice memo, YES, During calls, YES**.
2. Select **Record myself** or **Record other** and press **YES**.

Note: *In some countries you are required by law to inform the person you are talking to that you are recording him/her.*

Listening to Voice Memos

You can listen to your voice memos at any time, except during a call.

To listen to your voice memos

1. Press the voice memo button.
2. Scroll to the voice memo you wish to hear.
3. Press the voice memo button. If you want to:
 - pause: press the voice memo button.
 - go to next or previous: press  or , respectively.
 - go fast forward or rewind: press and hold  or , respectively.
4. Press **NO** to stop playback.

Editing Voice Memos

To erase or rename a voice memo

1. Briefly press the voice memo button.
2. Use  to scroll to the voice memo you wish to erase or rename.
3. Press **C** when the voice memo is highlighted.
4. Select **Erase** or **Rename** and press **YES**.

You can also erase or rename a voice memo when you pause during playback.

To erase all voice memos

- Scroll to **Extras, YES, Voice memo, YES, Erase all, YES**.

Recording Quality

In standby mode, you can record your voice memo in two different modes. You can choose to record either 36 seconds of high quality sound, or 90 seconds of normal quality sound.

To set the recording quality

1. Scroll to **Extras, YES, Voice memo, YES, Set quality, YES**.
2. Select a recording quality and press **YES**.

Settings

You can choose to show the date, time or length of the voice memo.

To set the view of your voice memos

1. Scroll to **Extras, YES, Voice memo, YES, Set view, YES**.
2. Scroll to **Date recorded** and press ***** if you do not want this information to be shown. The tick in the box disappears. Press ***** again if you want the information to be shown. The tick reappears.
Repeat the procedure for **Time recorded** and **Length**.

3. Press **YES**.

Voice Mail Service

The answering service of your network allows callers to leave a voice message when you cannot answer your calls.

Some operators inform you by sending a specific **Voice mail** indication. If this is the case, the voice mail icon appears in the display. Most operators, however, inform you by sending a text message, asking you to call your **Voice mail service**.

Calling Your Voice Mail

You can save the number of your Voice mail service to be able to call your Voice mail service simply by pressing and holding **1**. The number is provided by your network operator.

To save your voice mail number

1. Scroll to **Messages, YES, Options, YES, Voice mail no., YES**.
2. Enter your voice mail number and press **YES**.

Note: *The number of your Voice mail service may be different if you are calling from a network that is not your home network.*

When you receive a voice mail, your phone beeps and the message **New voice mail** appears in the display (only if you receive the specific voice mail indication). If you want to check your voice mail now, press **YES** to call your Voice mail service.

If you press **NO**, you can call your Voice mail service later to listen to your recorded messages.

To call your Voice mail service

- Press and hold **1** from standby mode, or:
 - Scroll to **Messages, YES, Call voice mail, YES**.

Message Alert Signal

You can change the signal that notifies you of a new message.

To change the message alert signal

1. Scroll to **Messages, YES, Options, YES, Message alert, YES**.
2. Select a signal and press **YES**.

Diverting Calls

You can use the **Divert calls** service to divert incoming calls to another phone number when you are unable to answer.

For voice calls, you can choose between the following divert alternatives:

- **Divert always** - divert all voice calls.
- **When busy** - divert calls if you are already on the phone.
- **No reply** - divert calls that you do not answer within a specified time limit.
- **Not reachable** - divert calls if your phone is turned off or if you are unreachable.

If you subscribe to the Two line service, you may set different divert phone numbers for your two voice lines, line 1 and line 2. You will then have two divert alternatives in the menu, **All line 1 calls** and **All line 2 calls**, instead of **Divert always**.

Tip: *If you place your phone in an Ericsson Desktop Charger, your calls may be diverted automatically.*

Activating Divert Calls

To turn on the Divert calls function

1. Scroll to **Settings, YES, Call options, YES, Divert calls, YES**.
2. Select a divert alternative and press **YES**.
3. Select **Activate** and press **YES**.
4. A phone number recently used for the divert function or a number recently shown in the display is suggested. Either confirm this number or enter the phone number, including the area code, to which you want your calls to be diverted and then press **YES**.

Note: *When the Restricted calls function is on, some Divert calls options cannot be activated.*

Cancelling Divert Calls

To cancel Divert calls

1. Scroll to **Settings, YES, Call options, YES, Divert calls, YES**.
2. Scroll to the divert you want to cancel and press **YES**.

3. Select **Cancel** and press **YES**.

Checking Divert Status

To check the status of Divert calls

1. Scroll to **Settings, YES, Call options, YES, Divert calls, YES**.
2. Scroll to the divert you want to check and press **YES**.
3. Select **Get status** and press **YES**.

To check the status of all Divert calls

- Scroll to **Settings, YES, Call options, YES, Divert calls, YES, Check all, YES**.

More than One Call

You can handle more than one call simultaneously. For example, you can put an ongoing call on hold, while you make or answer a second call, and then switch between the two calls.

You can also set up a **Conference call** to have a joint conversation with up to four other people.

Note: *Depending on whether a call is ongoing or not, either the Call info menu or the Ongoing call menu is shown.*

You can also reach the different options described below, for example, to hold a call or switch calls, by pressing .

Call Waiting Service

If you wish to be able to receive a second call while another call is in progress, you must turn on the **Call waiting** service.

Note: *If you are engaged in a data call, any incoming calls are rejected.*

To turn on the Call waiting service

- Scroll to **Settings, YES, Call options, YES, Call waiting, YES, Activate, YES**. There may be a short delay before the network responds.

To cancel the Call waiting service

- Scroll to **Settings, YES, Call options, YES, Call waiting, YES, Cancel, YES**.

To check whether the Call waiting service is on or not

- Scroll to **Settings, YES, Call options, YES, Call waiting, YES, Get status, YES**.

Making a Second Call

You can only put one call on hold while you make a second call.

To make a second call

1. Put the current call on hold by pressing **YES**.
2. Enter the number you wish to call and press **YES** or press and hold  to retrieve the number from your phone book.

Receiving a Second Call

If the **Call waiting** service is on, you hear a tone in the earpiece if you receive a second call. The number or name of the caller is normally shown at the top of the display together with a list of the alternatives: **Answer**, **Busy** and **Release&answer**. If the incoming call is a restricted number, the display shows **Withheld**.

To put the ongoing call on hold and answer the waiting call

- Press **YES** to answer the waiting call.
The current call is now put on hold.

To continue the ongoing call and reject the waiting call

- Select **Busy** and press **YES**.
The waiting call is rejected.

Note: *If Divert when busy is on, the waiting call is diverted to the number you have specified.*

To end the ongoing call and answer the waiting call

- Select **Release&answer** and press **YES**.

Handling Two Calls

When you have one active call and one call on hold, you can do one of the following:

To switch between the two calls

- Press **YES**.

To end the active call and return to the call on hold

1. Press **NO**. The question **Retrieve call?** appears.
2. Press **YES**.

If you press **NO**, the call on hold is also ended.

To end both calls

- Scroll to **Ongoing call**, **YES**, **Release all**, **YES**.

To connect the two calls

- Scroll to **Ongoing call**, **YES**, **Transfer call**, **YES**.

The two calls are now connected to each other, and you are disconnected from both.

To join the two calls into a Conference call

- Scroll to **Ongoing call**, **YES**, **Join calls**, **YES**.

See 'Conference calls' below.





Receiving a Third Call

If the Call waiting service is on, you may receive a third call when you have one active call and a second call on hold. From now on, you cannot answer any more calls without disconnecting one, unless you create a conference call. You hear a tone in the earpiece and **Busy** and **Release&answer** appear in the display.

To end the ongoing call and accept the waiting call

- Select **Release&answer** and press **YES**.

The waiting call becomes active and the call on hold remains on hold.

To reject the waiting call

- Select **Busy** and press **YES**. The caller hears a busy tone.
The third call is rejected.

Conference Calls

A conference call is a call with more than two participants. All participants can hear each other.

Creating a Conference Call

To create a conference call, you must have one active call and one call on hold.

To join the two calls into a conference call

- Scroll to **Ongoing call, YES, Join calls, YES**.

Adding New Participants

You can put the conference group on hold and then add new participants.

To add a new participant

1. Press **YES** to put the conference group on hold.
2. Call the next person you wish to include in the conference group.
3. Scroll to **Ongoing call, YES, Join calls, YES**.

To check the participants in the conference group

1. Scroll to **Ongoing call, YES, Parties in conf, YES**.

The first participant's phone number is displayed, if available. Otherwise the display shows part 1, 2 etc.

2. Scroll with  to check the other participants.

Having a Private Conversation

You can have a private conversation with one of the participants and put the other participants on hold.

To extract a participant

1. Scroll to **Ongoing call, YES, Extract part, YES**.
2. Select the participant and press **YES**.

To rejoin the participant to the conference group

- Scroll to **Ongoing call, YES, Join calls, YES**.

Releasing Participants

You can release participants from the conference group one by one or all at once.

To release a participant

1. Scroll to **Ongoing call, YES, Release part, YES**.
2. Select the participant and press **YES**.

To release all participants

- Scroll to **Ongoing call, YES, Release all, YES**.

Making a Call during a Conference Call

You can put the conference group on hold and make another call. You can then switch between the new call and the conference call.

To put the conference group on hold and make a new call

1. Press **YES**.
2. Enter the number you wish to call and press **YES**.

To switch between the new call and the conference group

- Press **YES**.

To end the new call and return to the conference group

- Press **NO** and then **YES**.

Ending the Conference Call

- Press **NO**.

Call Time and Call Cost

During a call, the duration is shown in the display. If you subscribe to cost information, the call cost (or the number of call units) is displayed instead.

Checking the Time or Cost

The **Call info** menu allows you to check the total time or cost of your calls. You can also check the call time and cost via .

To check the call time of the last call

- Scroll to **Call info**, **YES**, **Call timers**, **YES**, **Last Call**, **YES**.

To check the call time of your outgoing calls

- Scroll to **Call info**, **YES**, **Call timers**, **YES**, **Outgoing time**, **YES**.

To check the total call time

- Scroll to **Call info**, **YES**, **Call timers**, **YES**, **Total time**, **YES**.

To reset the total call time

1. Scroll to **Call info**, **YES**, **Call timers**, **YES**, **Reset timers**, **YES**.
2. Select **Total time** or **Outgoing time** and press **YES**.

To check the cost of the last call

- Scroll to **Call info**, **YES**, **Call costs**, **YES**, **Last call**, **YES**.

To check the total call cost

- Scroll to **Call info**, **YES**, **Call costs**, **YES**, **Total cost**, **YES**.

To reset the total call cost

1. Scroll to **Call info**, **YES**, **Call costs**, **YES**, **Clear total cost**, **YES**.
2. Press **YES** to confirm your choice.

Note: *If you subscribe to cost information, you must enter your PIN2 to clear the cost or time counter.*

Setting the Call Cost

You can use the **Tariff** function to specify the price per call unit. The price entered is saved on your SIM card.

Note: *If you do not specify a price per call unit, the number of call units is displayed during a call, and in Last call and Total cost in the Call info menu.*



To enter the price per call unit

1. Scroll to **Call info, YES, Call costs, YES, Set tariff, YES.**
2. Enter your PIN2 and press **YES.**
3. Select **Change tariff** and press **YES.**
4. Enter the currency you want, for example GBP for Pounds Sterling, and press **YES.**
5. Enter the price per call unit, for example 0.75, and press **YES.** To enter a decimal point, press **#.**

To revert to call units

1. Scroll to **Call info, YES Call costs, YES, Set tariff, YES.**
2. Enter your PIN2 and press **YES.**
3. Select **Units** and press **YES.**

Credit Limit for Calls

You can enter a total amount of money that can be used for making calls. When the amount reaches zero, no more calls can be made.

To set a specific credit limit

1. Scroll to **Call info, YES, Call costs, YES, Set credit, YES.**
2. Enter your PIN2 and press **YES.**
3. Select **Change credit** and press **YES.**
4. Enter the amount, for example 30 pounds, and press **YES.**

To set unlimited credit

1. Scroll to **Call info, YES, Call costs, YES, Set credit, YES.**
2. Enter your PIN2 and press **YES.**
3. Select **Unlimited** and press **YES.**

Minute Minder

If you turn on the minute minder, you hear a beep once every minute during a call as a reminder of the duration of the ongoing call.

To turn the minute minder on or off

1. Scroll to **Call info, YES, Call timers, YES, Minute minder, YES.**
2. Select **On** or **Off** and press **YES.**

Networks

Searching for Networks

When you turn on the phone, it searches for the last accessed network. If this is not within range, you may use another network, provided your home network has an agreement that allows you to do so. This is called roaming.

To start an automatic network search

- Scroll to **Settings, YES, Networks, YES, New search, YES**.
The phone automatically starts searching for a network according to the list of preferred networks saved on your SIM card.

To select a network

1. Scroll to **Settings, YES, Networks, YES, Select network, YES**.
2. Select a network and press **YES**.

The network you are currently using is marked with a filled button. The following information is also shown:

The display shows... meaning...



Your home network is within range.



The name of the network is included in a list of preferred networks on your SIM card. You can use this network.



The name of the network is included in a list of forbidden networks on your SIM card, and can only be used for emergency calls.

All other networks without any icons are available.

If your home network and a forbidden network come to an agreement that allows you to use the forbidden network, you can select this network even though the message **Forbidden** is displayed.

Preferred Networks

You can create and edit a list that defines the order in which your phone selects a network during automatic network search, when your home network is not within range.



The number of networks that can be stored in the list depends on your SIM card.

To view the list of networks

1. Scroll to **Settings, YES, Networks, YES, Preferred nets, YES.**

The name of the first network is displayed.

Use ◀ or ▶ to scroll through the networks in the list.

To see a network's full name

1. Scroll to **Settings, YES, Networks, YES, Preferred nets, YES.**
2. Scroll to a network and press **YES.**
3. Select **Full name** and press **YES.**

To add a network to the list

1. Scroll to **Settings, YES, Networks, YES, Preferred nets, YES, Add new?, YES.**
2. Scroll to a network and press **YES.**
If the network you want does not appear in the list, scroll to **Other** and press **YES.** Enter the three-digit country number and the two-digit network number and press **YES.**
3. Enter a position number and press **YES.**

To delete a network from the list

1. Scroll to **Settings, YES, Networks, YES, Preferred nets, YES.**
2. Scroll to a network and press **C, YES.**

To rearrange the list

1. Scroll to **Settings, YES, Networks, YES, Preferred nets, YES.**
2. Scroll to a network and press **YES.**
3. Select **Change priority** and press **YES.**
4. Enter the new position within the list and press **YES.**

Search Modes

When you turn on your phone, it searches for a network. This can be done in two different ways:

Automatic search mode means that your phone first searches for the last accessed network. If this is not available, it automatically searches for another available network within range.

Manual search mode means that your phone first searches for the last accessed network. If this is not available, the question **Select net?** appears. You then need to choose a network as described in "Searching for Networks" on page 99.

To turn on the automatic or manual search mode

1. Scroll to **Settings**, **YES**, **Networks**, **YES**, **Search mode**, **YES**.
2. Select **Automatic** or **Manual**, and press **YES**.

Security

You can protect your phone and subscription from unauthorized use in several ways. For example, you can lock the phone or subscribe to specific services such as the Restrict Calls service.

Locking the SIM Card

The SIM card lock protects your subscription, but not your phone itself, from unauthorized use. If you change SIM cards, the phone still works with the new SIM card.

Most SIM cards are locked at the time of purchase. If the SIM card lock is on, you have to enter your PIN (Personal Identity Number) every time you turn on your phone. If you enter your PIN incorrectly three times in a row, the SIM card is blocked. This is indicated by the message **PIN blocked**. To unblock it you need to enter your PUK (Personal Unblocking Key). Your PIN and your PUK are supplied by your network operator.

To unblock your SIM card

1. **PIN blocked** appears.
2. Enter your PUK (or PUK2) and press **YES**.
3. Enter a new 4-to-8-digit PIN (or PIN2) and press **YES**.
4. Re-enter the new PIN (or PIN2) to confirm and press **YES**.

Note: *If you enter the wrong PUK ten times in a row, your card is permanently blocked. If this happens, you should contact your network operator.*

To change your PIN

1. Scroll to **Settings, YES, Locks, YES, Card lock, YES, Change PIN, YES**.
2. Enter your old PIN and press **YES**.
3. Enter your new PIN and press **YES**.
4. Re-enter your new PIN to confirm and press **YES**.

To change your PIN 2

1. Scroll to **Settings, YES, Locks, YES, Card lock, YES, Change PIN2, YES**.
2. Proceed as described in “To change your PIN” above.



To turn the SIM card lock on or off

1. Scroll to **Settings, YES, Locks, YES, Card lock, YES, Protection, YES**.
2. Select **On** or **Off**, enter your PIN and press **YES**.
The message **Locked** or **Unlocked** confirms that the card lock has now been turned on or off.

Locking the Phone

The phone lock protects the phone against unauthorized use if it is stolen and the SIM card exchanged. It is not on when you buy the phone. You can change the phone lock code (**0000**) to any four-to-eight-digit personal code. The phone lock can be **On, Automatic** or **Off**.

To set the phone lock to on, automatic or off

1. Scroll to **Settings, YES, Locks, YES, Phone lock, YES, Protection, YES**.
2. Select **On, Automatic** or **Off**. The current setting is not available in the list.
3. Enter the phone lock code and press **YES**.

If the phone lock is **On**, the message **Phone locked Phone lock code:** appears each time you turn on the phone. You have to enter your code followed by **YES** to use your phone.

If the phone lock is set to **Automatic**, you do not need to enter your phone lock code until a different SIM card is inserted in the phone.

Changing the phone lock code

1. Scroll to **Settings, YES, Locks, YES, Phone lock, YES, Change code, YES**.
2. Follow the steps described in “To change your PIN” on page 102.

Note: *If you should forget your new code, you have to hand in your phone to your local Ericsson retailer to have the phone unlocked.*

Locking the Keypad

With the keypad lock on, you avoid accidental dialling, for example, if you keep your phone in your pocket. You can set the keypad lock manually or select the automatic keylock. Automatic keylock means that if no keys are pressed in 25 seconds, the keypad is locked.

Note: *You can call the international emergency number even if the keypad is locked. If the phone alarm rings, you can turn it off by pressing any key.*





The keypad is locked until you:

- answer an incoming call
- read an incoming message
- replace the battery
- unlock the keypad.

To lock the keypad manually

1. From standby, press .
2. Select **Turn on keylock** and press **YES**.

To unlock the keypad manually

- Press **C**. The question **Turn off keylock?** appears. Press **YES**.

To set the automatic keylock on or off

1. Scroll to **Settings**, **YES**, **Locks**, **YES**, **Auto keylock**, **YES**.
2. Select **On** or **Off** and press **YES**.

Note: *The keypad lock is always turned off if the phone is connected to a car handsfree.*

Restricting Calls

You can use the **Restrict calls** service to restrict certain types of calls that can be made and received. You need a password, which comes with your subscription, to turn a call restriction on or off.

The following calls can be restricted:

- all outgoing calls, **All outgoing**
- all outgoing international calls, **Outgoing Intl**
- all outgoing international calls except to your home country, **Outg Intl roam**
- all incoming calls, **All incoming**
- all incoming calls when you are abroad (when roaming), **Inc when roam**

To turn a call restriction on or off

1. Scroll to **Settings**, **YES**, **Call options**, **YES**, **Restrict calls**, **YES**.
2. Scroll to an option and press **YES**.
3. Select **Activate** or **Cancel** and press **YES**.
4. Enter your password and press **YES**.
 - To cancel all call restrictions, select **Cancel all**.
 - To check the status of a call restriction, select the call restriction option and then **Get status**.
 - To change the password, select **Change passwd**.

Note: *If you divert incoming calls, you cannot turn on some Restrict calls options.*

Dialling

The **Fixed dialling** function allows calls to be made only to certain numbers saved on the SIM card. If an attempt is made to call other numbers, the message **Number not permitted** appears in the display. Fixed dialling requires a SIM card that allows fixed numbers to be saved. The fixed numbers are protected by your PIN2.

Note: *Calls to the international emergency numbers can still be made, even when Fixed dialling is on.*

To turn Fixed dialling on or off

1. Scroll to **Phone book, YES, Options, YES, Fixed dialling, YES.**
2. Enter your PIN2 and press **YES.**
3. Select **On** or **Off** and press **YES.**

To save fixed numbers

1. Scroll to **Phone book, YES, Special numbers, YES, Fixed numbers, YES, Add new?, YES.**
2. Enter your PIN2 and press **YES.**
3. Enter the fixed number and press **YES.**
4. Enter the name you want to associate with the number and press **YES.**

Closed User Groups

The **Closed user group** function is another way of lowering call costs. On some networks it is cheaper to make calls within a call group. Your network operator can place certain numbers in groups. You can have a maximum of 10 groups.

To add a closed user group

1. Scroll to **Settings, YES, Call options, YES, Closed groups, YES, Edit list, YES.**
2. Scroll to **Add new?** and press **YES.**
3. Enter the name of the user group and press **YES.**
4. Enter the index number of the group and press **YES.**

The index numbers are provided by your network operator.



To activate a closed user group

1. Scroll to **Settings**, **YES**, **Call options**, **YES**, **Closed groups**, **YES**, **Edit list**, **YES**.
2. Scroll to the group you want and press **YES**.
3. Select **Activate** and press **YES**.

Calls can be made only within the selected user group.

To call outside closed user groups

1. Scroll to **Settings**, **YES**, **Call options**, **YES**, **Closed groups**, **YES**, **Open calls**, **YES**.
2. Select **On** and press **YES**.

Accepting Calls

With the **Accept calls** service, you can choose to receive calls only from certain numbers that you have in your phone book. Other calls are automatically rejected by a busy tone. You have to save the numbers that you want to receive in an **Accepted list**. The rejected calls are saved in the **Call list** in the **Call info** menu.

To add numbers to the list of accepted callers

1. Scroll to **Settings**, **YES**, **Call options**, **YES**, **Accept calls**, **YES**, **Accepted list**, **YES**, **Add new?**, **YES**.
2. Enter the first letter of the contact and press **YES**.
3. Scroll to the number you want to add and press **YES**.

To set the accept options

1. Scroll to **Settings**, **YES**, **Call options**, **YES**, **Accept calls**, **YES**, **Accept options**, **YES**.
2. Select one of the following:
 - **From list** - you only receive calls from callers in the **Accepted callers list**. All other incoming calls will be rejected. The caller hears a busy tone and you get no indication of incoming calls.
 - **From no one** - All incoming calls are rejected.
 - **From all** - You receive all calls as normal.

Code Memo

Instead of having to remember all the different security codes for credit cards etc, you can save them in Code memo in your phone. Then all you need to remember is the password to open Code memo.

Checkword and Security

To confirm that you have entered the correct password in Code memo and to prevent unauthorized access to your codes, you must enter a **Checkword**. When you enter your password to open Code memo, the checkword is shown for a short time. If the password is correct, the correct codes are shown. If you enter the incorrect password, the checkword and the codes that are shown are also incorrect.

Factors strengthening the security of Code memo function are:

- You get no feedback about whether the password is correct, except for the checkword, and only you know the checkword.
- All codes are encrypted in the mobile phone.
- When you access your codes, they are shown for a limited time only.

Using Code Memo

To open Code memo for the first time

1. Scroll to **Extras, YES, Code memo, YES**.
A message with instructions appears.
2. Press **YES**.
3. Enter a 4-digit password to start Code memo and press **YES**.
4. Re-enter the new password to confirm.
5. Enter a checkword and press **YES**.
The checkword can consist of both letters and numbers. To enter a number, press and hold the key.

To add a new code

1. Scroll to **Extras, YES, Code memo, YES**.
2. Enter your password.
3. Select **Add new code?** and press **YES**.
4. Enter a name associated with the code, for example, the name of the credit card company, and press **YES**.
5. Enter the code and press **YES**.

To open Code memo

1. Scroll to **Extras, YES, Code memo, YES**.
2. Enter your password and press **YES**.

Your entered checkword appears. When the decryption process has finished, your codes are shown.

Deleting and Editing Codes

To delete a single code

1. Open Code memo as described above.
2. Scroll to the code you want to delete and press **C**.
3. **Delete?** appears. Press **YES**.

To edit a code

1. Open Code memo as described above.
2. Scroll to the code you want to edit and press **YES**. Press **YES** again.
3. Select **Edit** and press **YES**.
4. Enter the name and press **YES**, enter the code and press **YES**.

Resetting All Codes

1. Open Code memo as described above.
2. Scroll to **Options, YES, Reset, YES**.
3. **Reset code memo?** appears. Press **YES**.

Changing the Password

1. Open Code memo as described above.
2. Scroll to **Options, YES, Chg password, YES**.
3. Enter your new password and press **YES**.
4. Re-enter the new password and press **YES**.
5. Enter a checkword and press **YES**.

Forgot Your Password?

If you forget your password, just enter any password to access Code memo function. The checkword and codes that are then shown are incorrect. Delete them by pressing **C, YES**. Scroll to **Options** and select one of the following:

- **Chg password** – you must enter a new password and checkword. Select **Add new code?** and press **YES**. Enter your codes again.

- **Reset** – Code memo is reset and all entries are cleared. The next time you enter Code memo, you must start at “To open Code memo for the first time” on page 107.

Two Voice Lines

If your subscription supports the **Two line service**, your phone has two voice lines with different phone numbers, separate bills and perhaps different subscription services. This is useful if, for example, you want to keep business calls and private calls on separate lines. You may have different settings for each line, for example, the ring signal or divert calls. You may also have separate voice mail numbers for each phone line, if this is supported by your subscription. Some operators may show the call time or call cost for each line separately.

Changing the Name

When you buy your phone, the names of the lines are normally line 1 and line 2, but you can change their names.

To change the name of a line

1. Scroll to **Settings**, **YES**, **Display**, **YES**, **Edit line tags**, **YES**.
2. Select a line and press **YES**.
3. Enter a new name and press **YES**.

Changing Lines

Once you have chosen a line, all outgoing calls are made on this line until you change it again. An icon indicates the line currently chosen for outgoing calls.

Note: *Incoming calls can be received on both lines, irrespective of the line currently chosen.*

To change phone lines

1. Scroll to **Call info**, **YES**, **Next call**, **YES**.
2. Select **Switch to line 1** or **Switch to line 2** and press **YES**.

Locking One Line

You can choose to lock one of the lines, so that it cannot be used unless you enter the PIN2.

To lock a phone line

1. Scroll to **Settings**, **YES**, **Locks**, **YES**.
2. Select the phone line you want to lock: **Lock line 1** or **Lock line 2**. Press **YES**.

3. Enter your PIN2 and press **YES**.

To unlock a phone line

1. Scroll to **Settings, YES, Locks, YES**.
2. Select the phone line you want to unlock: **Unlock line 1** or **Unlock line 2**. Press **YES**.
3. Enter your PIN2 and press **YES**.

Calling Card Calls

When making international or long distance calls, you may want to use the calling card service to redirect the charges to a credit card account, instead of your normal account.

Note: *You cannot use the calling card service when making a data call.*

Calling Card Service

To be able to make calling card calls, you need to turn on the service.

To turn on the calling card service

1. Scroll to **Phone book, YES, Options, YES, Set calling cards, YES.**
2. Enter your phone lock code (0000) and press **YES.**
3. Select **On** and press **YES.**

The Calling card service is now on and the sub-menu **Calling cards** is available in the **Phone book** menu.

Saving Calling Card Numbers

You can save two calling card numbers in your phone.

To save a card number

1. Scroll to **Phone book, YES, Calling cards, YES.**
2. Enter your phone lock code and press **YES.**
3. Select **Add new?** and press **YES.**
4. Enter the access number of the calling card server and press **YES.**
5. Enter a name that you want to associate with your calling card server and press **YES.**
6. Enter the verification code of the calling card server and press **YES.**
7. Select which you want to send first - the number that you want to call or the verification code - and press **YES** to confirm your choice.

Note: *Verification codes are provided by your network operator.*

To delete a card number

1. Scroll to **Phone book, YES, Calling cards, YES**.
2. Scroll to the card number that you want to delete and press **C**.
3. Press **YES**.

To edit a card number

1. Scroll to **Phone book, YES, Calling cards, YES**.
2. Scroll to the card number that you want to edit and press **YES**.
3. Select **Edit** and edit the card number.
4. Press **YES** to confirm the new number.

Choosing a Card

If you have saved two card numbers, you must choose which card you want to use before making a calling card call.

To select a card

1. Scroll to **Phone book, YES, Calling cards, YES**.
2. Enter your phone lock code and press **YES**.
3. Select the card that you want to use and press **YES**.
4. Select **Activate card** and press **YES**.

Making a Calling Card Call

1. Enter the phone number of your calling card server or retrieve it from the phone book by pressing and holding .
2. Press and hold **YES**.
The access number of the calling card server is called. During the connecting phase, you are asked to send the phone number that you want to call and the verification code, in the order chosen earlier (see above).
3. Press **YES** when the display shows **Send** or wait a few seconds and the number and code are sent automatically.

Games

Your phone includes four games: **Tetris**, **Tennis**, **Ballpop** and **Jetduel**.

Tetris®

The object of **Tetris** is to prevent the blocks from reaching the top. Each time you fill a line, the line disappears.

To start Tetris®

1. Scroll to **Extras**, **YES**, **Games**, **YES**, **Tetris**, **YES**.
Tetris appears in the display.
2. To start a game, select **Start** and press **YES**.
3. Select level (1–10), or resume a game by using ◀ or ▶.
4. Press any key to start.
 - Instead of choosing **Start** you can scroll with ◀ or ▶ to select **High score**, **Help** or **Quit** (at step 2 above).

To control the game

- **8** or slide the volume key down = move left
- **2** or slide the volume key up = move right
- **3**, **5** or **9** = rotate
- **6** = drop faster
- **C** = pause
- **NO** = quit

Tetris®; © Elorg 1987. Classic Tetris™; © Elorg 1998
Tetris Logo by Roger Dean, © The Tetris Company 1997
All Rights Reserved

Tennis

You can play **Tennis** by yourself or against a user of another R520 phone using *Bluetooth* wireless technology or the infrared port. You play six games.

Tip: Read about “*Bluetooth™ Wireless Technology*” on page 48 and “*Infrared Port*” on page 53.





To start Tennis

1. Scroll to **Extras, YES, Games, YES, Tennis, YES**.
Tennis appears in the display.
2. To start a new game, press **1**.
(Press **2** to resume a game and press **3** for help.)
3. If you want to play with sound effects, press **1**. If not, press **2**.
4. Select how you want to play:
 - **Single** – you play against the phone: press **1** and start playing.
 - **Two, one phone** – you and another person play against each other on the same phone: press **2** and start playing.
 - **Two, two phones** – you and another person play against each other on your phones via *Bluetooth* wireless technology or via the infrared port: press **3**.

If you select **Two, two phones**, proceed as follows:

5. Select a transfer method by pressing **1 (IR)** or **2 (Bluetooth)**.
6. Select if you want to initiate the game or if you want to join the game:
 - **Invite others** – you initiate a new game: press **1**.
You see a list of nearby phones that are set to **Search others** (see below). Select the one you want to play against.
 - **Search others** – your phone waits to be found by another phone that has initiated a game: press **2**.
7. When the phones have found each other, start playing.

To control the game

You are the tennis player on the left.

- **1** or **2** = move the tennis player up
- **4, 5, 7** or **8** = move the tennis player down

If two people play on the same phone, the tennis player on the right should control the game as follows:

- **3** = up
- **6** or **9** = down

Ballpop

The object of Ballpop is to prevent blocks from reaching the left-hand side of the display. You do this by using a bat to bounce a ball against the blocks. At regular intervals, a new row of blocks is added. A row is also added when the ball hits the left-hand wall. If a block touches

the bat or the left-hand wall, you lose a life. Some blocks appear as icons. When the ball hits these, a new characteristic is added to the bat, for example it is turned into a multiball, a hardball, a cannon or the bat becomes enlarged, or you get an extra life.

To start Ballpop

1. Scroll to **Extras, YES, Games, YES, Ballpop, YES**.
2. Select **Start** and press **YES**.
3. Select difficulty level using  or  and then press **YES**.

Instead of selecting **Start** at step 2, you can select **High score** or **Quit** by pressing .

To control Ballpop

- **9** or slide the volume key down = move the bat down
- **3** or slide the volume key up = move the bat up
- **6** = to fire shots when the bat is a cannon

Jetduel

In Jetduel, the goal is to prevent all your jet planes from being shot down or destroyed by missiles or mines. If you can stay alive during the game, you win. You can play by yourself or against the user of another R520 phone using *Bluetooth* wireless technology or the infrared port.

To start Jetduel

1. Scroll to **Extras, YES, Games, YES, Jetduel, YES**.
Select how you want to play by scrolling to one of the following options and pressing **YES**.
 - **1-player game** – you play against the phone.
 - **2-player game** – you and another person play against each other on your phones via *Bluetooth* wireless technology or via the infrared port.

If you select **2-player game**, proceed as follows:

2. Select a transfer method by pressing **1 (IR)** or **2 (Bluetooth)**.
3. Select if you want to initiate the game or if you want to join the game:
 - **Invite others** – you initiate a new game: press **1**.
You see a list of nearby phones that are set to **Search others** (see below). Select the one you want to play against.
 - **Search others** – your phone waits to be found by another phone that has initiated a game: press **2**.

4. When the planes have found each other, the player who initiated the game can make difficulty settings, and also decide how many rounds the game will have.

To control the game

-  = turn the plane clockwise
-  = turn the plane anti-clockwise
-  = increase the plane speed
- **1** = fire a gun
- **3** = fire a missile

To enter optional settings

1. Scroll to **Extras, YES, Games, YES, Jetduel, YES.**
2. Select **Options, YES.**
 - **Sound.** Select if you want to play with sound effects.
 - **Colour.** Select if you want your plane to be white or black.

Tools

Alarm Clock

The phone has an alarm clock that can be set to ring at a specific time within 24 hours. You can also set the alarm to ring at a specific time for several days. For example, it can ring at 8 am on Monday, Wednesday and Friday. You can have both these alarms set at the same time.

To set an ordinary alarm

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Ordinary alarm, YES**.
2. Enter the time.
3. Press **YES** to confirm your setting.

To change the time of an ordinary alarm

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Ordinary alarm, YES, New time, YES**.
2. Enter the time and press **YES** to confirm your setting.

To turn the alarm signal off

- Press any key to turn the alarm signal off when it rings. If you do not want the alarm to be repeated, press **YES**.

To cancel an ordinary alarm

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Ordinary alarm, YES**.
2. Select **Cancel** and press **YES**.

To set a special alarm

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Special alarm, YES**.
2. Enter the time and press **YES**.
3. Select the days that you want the alarm to recur by scrolling and pressing *. Press **YES** to exit the menu.
You can view the days in the **Recurrence rule** sub-menu.

To change the time for a special alarm

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Special alarm, YES**.
2. Select **New time** and press **YES**.
3. Enter the new time for your special alarm and press **YES**.

To turn the alarm signal off

- Press any key to turn the alarm signal off when it rings. If you do not want the alarm to be repeated, press **YES**.

To cancel a special alarm

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Special alarm, YES**.
2. Select **Cancel** and press **YES**.

Motion Snooze

You can interrupt the alarm clock with a motion, for example, by moving your hand over the phone.

To turn motion snooze on or off

1. Scroll to **Extras, YES, Time, YES, Alarm clock, YES, Motion snooze, YES**.
2. Select **On** or **Off** and press **YES**.

Alarm Signal

To change the alarm signal

1. Scroll to **Settings, YES, Sounds & alerts, YES, Ring signals, YES, Alarm signal, YES**.
2. Select a signal and press **YES**.

Stopwatch

The phone has a built-in stopwatch.

To run the stopwatch

1. Scroll to **Extras, YES, Time, YES, Stopwatch, YES**.
2. Press **YES** to start the stopwatch. Press **YES** again to stop it.

By pressing # when the stopwatch is running, you can save up to nine lap times. Press  or  to check your saved lap times.

To reset the stopwatch

- Press **C** when the stopwatch is not running.

Note: *The stopwatch is turned off when you receive a message or when you exit the stopwatch menu.*

Timer

The phone has a built-in 24-hour timer.

To set the timer

1. Scroll to **Extras, YES, Time, YES, Timer, YES**.
2. Enter the hours, minutes and seconds and press **YES**.
The countdown begins. The timer is shown in standby mode.
When the alert sounds, press any key to turn it off.

To set a new time when the timer is running

1. Scroll to **Extras, YES, Time, YES, Timer, YES, Set new time, YES**.
2. Enter the time and press **YES**.
The countdown begins. The timer is shown in standby mode.
When the alert sounds, press any key to turn it off.

Currency Converter

You can use your phone to check and convert currencies. You can enter one **Default currency** and up to 19 other currencies. You can also enter a currency as an **Extra currency**. A default currency could be the currency of your country. An extra currency could be the currency of a country to which you travel. If you set a currency that you use often as an extra currency, you can get faster access to conversion to and from this currency.

To add a currency

1. Scroll to **Extras, YES, Set currencies, YES, Currencies, YES, Add currency, YES**.
2. Enter the name (abbreviation, max three characters) and the value of the currency you want to add.

To set a default currency or an extra currency

1. Scroll to **Extras, YES, Set currencies, YES, Currencies, YES**.
 - Scroll to the currency that you want as your default currency, **YES**. Select **Def. currency** and press **YES**. Press **YES** again.
 - Scroll to the currency that you want as your extra currency, **YES**. Select **Extra currency** and press **YES**. Press **YES** again.

Convert Currencies

To convert currencies, scroll to **Extras, YES, Set currencies, YES** and continue as below.

The example given is for converting from another currency to the selected default currency, USD.

To convert to a default currency

1. Scroll to **Convert to USD, YES**. Scroll to the currency you want to convert from, **YES**.
Or select, for example, **GBP to USD**, if you have set GBP to be your extra currency.
2. Enter the value you want to convert and press **YES**.
The display shows the amount in the default currency. Press **YES** to continue.

To convert from your default currency to another currency

1. Scroll to **Convert from USD, YES**. Scroll to the currency you want to convert to, **YES**.
Or select, for example **USD to GBP**, if you have set GBP to be your extra currency.
2. Enter the value you want to convert and press **YES**.
The display shows the amount in the other currency. Press **YES** to continue.

Update Currencies

You can update the value of the currencies in your list of currencies.

To update the currency values

1. Scroll to **Extras, YES, Set currencies, YES**.
2. Scroll to **Edit list** and press **YES**.
3. Edit the value or press **YES** to go to the next currency in the list.

Calculator

The phone has a built-in calculator, which can add, subtract, divide and multiply.

- Press **#** to get **+**, **-**, **x**, **/**.
- Press **C** to delete the figure to the left of the cursor.
- Press ***** to enter a decimal point.

To use the calculator

In this example, we are going to divide 134 by 32.

1. Scroll to **Extras, YES, Calculator, YES**.
2. Enter **134**.
3. Press **#** repeatedly until the division sign (**/**) appears.
4. Enter **32**.
5. Press **YES** to get the answer.
6. To clear the display, press **C**.

Online Services



Online services are customized services offered by network operators, independently of mobile phones and mobile phone manufacturers.

A SIM card which supports Online services works in the same way as a normal SIM card. When you have inserted your SIM card and turned on your phone, your network operator can download data to your SIM card. After the first data download and after restarting your phone, a new menu appears in your phone as the first sub-menu under the **Extras** menu.

To enter your new menu system

- Scroll to **Extras, YES, Online services, YES.**

Note: *This menu only appears if your SIM card supports this service. Some operators may not use the name “Online services”. Your phone may not support all of the services offered.*

Your network operator can at any time download new data, for example a new feature, to your SIM card. You may be notified by a message in your display.

Ericsson Mobile Internet

When you are on the move and in need of communication and information, the **Ericsson Mobile Internet** is the answer.

The Ericsson Mobile Internet is a service supplied by Ericsson to make it easier for you to communicate and receive information quickly, wherever you are. It gives you access to various messaging services, on-line customer services, user manuals and other useful information. You can also download communications software to ensure you get the best out of your Ericsson products.

You can access the Ericsson Mobile Internet both via the WAP browser in your phone and the Internet browser on your computer.

The **Ericsson Mobile Internet** address is:

<http://mobileinternet.ericsson.com>

Troubleshooting

Here are some problems that you might have while using your phone. Some problems require that you call your service provider, but most of the problems you encounter you can easily correct yourself.

Error Messages

Insert Card

There is no SIM card in the phone or you may have inserted it incorrectly. Insert a SIM card. See “SIM Card” on page 7.

Insert Correct SIM Card

The phone may have been locked by the network operator to work only with a certain SIM card. Insert the correct SIM card.

New SIM Card Inserted

You have inserted a new SIM card in your phone. Select if you want to use the SIM card as your standard SIM card or as an extra SIM card. See “Inserting a New SIM Card” on page 37.

SOS Calls Only

You are within range of a network but you are not allowed to use it. However, in an emergency, some operators allow you to call the international emergency numbers. See “Making Emergency Calls” on page 12.

No Network

There is no network within range or the received signal is too weak. You have to move to get a signal that is strong enough.

Wrong PIN, Wrong PIN2

You have entered your PIN or PIN2 incorrectly. Enter the correct PIN or PIN2, and press **YES**. See “Locking the SIM Card” on page 102.

Codes Do not Match

When you want to change a security code (for example your PIN) you have to confirm the new code by entering it again. The two codes that you have entered do not match. See “Locking the SIM Card” on page 102.



PIN/PIN2 Blocked

You have entered your PIN or PIN2 incorrectly three times in a row. To unblock, see “Locking the SIM Card” on page 102.

PUK Blocked - Contact Operator

You have entered your personal unblocking key code (PUK) incorrectly 10 times in a row. Contact your network operator.

Phone Locked

The phone is locked. To unlock the phone, see “Locking the Phone” on page 103.

Phone Lock Code:

Your phone comes with the phone lock code, **0000**. You can change it to any four- to eight-digit code. See “Locking the Phone” on page 103.

Number not Permitted

The **Fixed Dialling** function is on and the number you have dialled is not on your fixed numbers list. See “Dialling” on page 105.

Charging, Alien Battery

The battery you are using is not an Ericsson-approved battery and is charging slowly for safety reasons.

Other Problems

No Indication of Charging

When you start charging a battery that is empty or a battery that has not been used for a long time, it may take a while before the indicator on the top of the phone shows a red light and the battery meter appears.

Cannot Access a Certain Function

The function or service can be dependent on your SIM-card or the network. Contact your network operator.

Technical Data

General

Product name	R520
System	GSM 900/GSM1800/GSM1900
SIM card	Small plug-in card, 3V or 5V type
Type number	1130101-BV
Talktime	Up to 455 minutes (7 hours, 35 min)
Standby time	Up to 200 hours (> 8 days)

Dimensions

Size	130 x 50 x 16 mm
Weight (+ultra slim battery)	105 g

Ambient temperatures

Max	+55°C
Min	-10°C

GSM data

Data transmission rate	Up to 28.8 kb/s. However, with V.42bis compression you can reach data transmission rates up to four times higher, depending on the data type.
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GPRS (General Packet Radio Services)

Data transmission rate	Up to 53.6 kb/s. However, with V.42bis compression you can reach data transmission rates up to four times higher, depending on the data type.
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Infrared communication

Coverage area	Up to 1 metre (3.3 ft)
Standards for transfer	R520 supports full implementation of standard IrDA and IrDA-Ultra.
Data transmission rate	Up to 115.2 kb/s.

CLASS 1 LED PRODUCT.

The IrDA Feature Trademark is owned by the Infrared Data Association and is used under licence therefrom.



Cable

Cable type	RS232 (V.24)
Data transmission rate	Up to 230.4 b/s.

Bluetooth wireless technology

Coverage area	Up to 10 metres (33 ft.)
Transmission power	1mW (0dBm)
Frequency band	2.4 GHz - the unlicensed ISM band
Power consumption	Standby current: < 0.3 mA (3 months) Voice mode: 8-30 mA (75 hours) Data mode average: 5 mA [0.3-30 mA, 20 kb/s, 25%] (120 hours)
Data transmission rate	Up to 108.8 kb/s with one time slot.

Bluetooth Capability Statement

This product is manufactured to meet Bluetooth Specification 1.0.

The following *Bluetooth* functions are supported:

- Generic Access Profile
- Serial Port Profile
- Headset Profile
- Dial-up Networking Profile
- Fax Profile
- Generic Object Exchange Profile
- Object Push Profile
- Synchronization Profile

Safe and Efficient Use

Note: *Read this information before using your mobile phone.*

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

Product Care

- **Do not** expose your product to liquid or moisture.
- **Do not** expose your product to extreme hot or cold temperatures.
- **Do not** expose your product to lit candles, cigarettes, cigars, open flames etc.
- **Do not** drop, throw or try to bend the product since rough treatment could damage your product.
- **Do not** paint your product as the paint could obstruct the earphone, microphone or any moveable parts and prevent normal use.
- **Do not** attempt to disassemble your product, a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Service should only be performed by Ericsson Service Points or Certified Service Centres.
- **Do not** use any other accessories than Ericsson originals with the exception of products approved by the Bluetooth Qualification Review Board. Failure to do so may result in loss of performance, damage to the product, fire, electric shock or injury, and will void the warranty.
- **Treat your product with care, keep it in a clean and dust-free place. Only use a soft damp cloth to clean your product.**

Antenna

- To avoid impaired performance please ensure your mobile phone's antenna is not bent or damaged.
- Do not remove the antenna yourself. If your phone's antenna is damaged please take it to a Ericsson Service Point or Certified Service Centre.
- Use only an antenna that has been specifically designed for your phone. Unauthorized antennas, modifications, or attachments

could damage the phone and may violate the appropriate regulations causing loss of performance and radio frequency (RF) energy above the recommended limits.

Efficient Use

To enjoy optimum performance with minimum power consumption please:

- Hold the phone as you would any other telephone. While speaking directly into the mouthpiece, angle the antenna in a direction up and over your shoulder. If the antenna is extendable/retractable, it should be extended during a call.
- Do not hold the antenna when the phone is in use. Holding the antenna affects call quality, may cause the phone to operate at a higher power level than needed and shorten talk and standby times. If your mobile phone is equipped with an infrared eye, never direct the infrared ray at anyone's eye and make sure that it does not disturb any other infrared units.

Radio Frequency Energy

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

Exposure to RF Energy

The International Commission on Non-Ionizing Radiation Protection (ICNIRP), supported by the World Health Organisation (WHO), published during 1996 a statement and in 1998 guidelines which set recommended limits for exposure to RF fields from handheld mobile telephones. According to the ICNIRP statement, which is based on the available body of research, there is no evidence that mobile terminals meeting the recommended limits can cause any adverse health effects. All Ericsson telephones conform to the ICNIRP guidelines and other international exposure standards, such as:

- CENELEC European Pre-standard ENV50166-2:1995 (Europe)
- ANSI/IEEE C95.1-1992 (USA, Asia-Pacific)
- AS/NZS 2772.1 (Int):1998 (Australia, New Zealand)

Driving

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

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

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

Vehicles Equipped with an Air Bag

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

Electronic Devices

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

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

Mobile phones may affect the operation of some implanted cardiac pacemakers and other medically implanted equipment. Pacemaker patients should be aware that the use of a mobile phone very close to a pacemaker might cause the device to malfunction. Avoid placing the phone over the pacemaker, i.e. in your breast pocket. When using the phone, place it at your ear opposite the pacemaker. If a minimum

distance of 15 cm is kept between the phone and the pacemaker, the risk of interference is limited. If you have any reason to suspect that interference is taking place, immediately turn off your phone. Contact your cardiologist for more information.

Some hearing aids might be disturbed by mobile phones. In the event of such disturbance, you may want to contact your local Call Centre to discuss alternatives.

Aircraft

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

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

Blasting Areas

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

Explosive Atmospheres

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

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

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

Power Supply

- Connect AC (Power supply) only to designated power sources as marked on the product.
- To reduce risk of damage to the electric cord, remove it from the outlet by holding onto the AC adapter rather than the cord.
- Make sure the cord is positioned so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.

- To reduce risk of electric shock, unplug the unit from any power source before attempting to clean it.
- The charger must not be used outdoors or in damp areas.

Children

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

Emergency Calls

IMPORTANT!

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

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

Battery Information

New Batteries

The battery delivered with your phone is not fully charged. We recommend that you charge the battery for 3 hours before you use the phone for the first time. The first time you charge a new battery, or a battery that has run completely dry, it may take a while before you get any indication of the battery being charged (the top indicator does not light up and the battery meter does not appear in the display). However, they will come on after a while.

Please note that you cannot turn on the phone, before the indicator lights up and the battery meter appears in the display.

Battery Use and Care

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

- The talk and standby times depend on the actual transmission conditions when using the phone. If the phone is used near a base station less power is required and talk and standby times are prolonged.

- Only use Ericsson original batteries and chargers. Using non-original Ericsson batteries and chargers could be dangerous and the warranty does not cover product failures, which have been caused by use of non-original Ericsson batteries and chargers.
- Do not expose your battery to extreme temperatures, never above +60°C (+140°F). For maximum battery capacity use your battery at room temperature. If the battery is used in cold temperatures the battery capacity will be reduced.
- The battery can only be charged when the temperature is between +5°C (+41°F) and +45°C (+113°F).
- Turn off your phone before removing the battery.
- Use only the battery for the intended purpose.
- Do not attempt to take a battery apart.
- Do not let the metal contacts on the battery touch another metal object. This could short-circuit and damage the battery.
- Do not expose a battery to open flames. This could cause the battery to explode.
- Do not expose a battery to liquid.
- Do not allow the battery to be placed into the mouth. Battery electrolytes may be toxic if swallowed.

Recycling Your Battery

The battery must be disposed of properly and should never be placed in municipal waste. Check local regulations for proper disposal instructions.

Warranty

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

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

Our Warranty

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

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

What We Will Do

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

Conditions

1. The warranty is valid only if the original receipt issued to the original purchaser by the dealer, specifying the date of purchase and serial number, is presented with the Product to be repaired or replaced. Ericsson reserves the right to refuse warranty service if this information has been removed or changed after the original purchase of the Product from the dealer.
2. If Ericsson repairs or replaces the Product, the repaired or replaced Product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may be via

functionally equivalent reconditioned units. Replaced faulty parts or components will become the property of Ericsson.

3. This warranty does not cover any failure of the Product due to normal wear and tear, misuse, including but not limited to use in other than the normal and customary manner, in accordance with Ericsson's instructions for use and maintenance of the Product, accident, modification or adjustment, acts of God, improper ventilation and damages resulting from liquid.
4. This warranty does not cover Product failures due to repair installations, modifications or improper service performed by a non-Ericsson Service Point or Certified Service Centre or opening of the product by non-Ericsson certified persons.
5. The warranty does not cover Product failures which have been caused by use of non-Ericsson original accessories with the exception of products approved by the Bluetooth Qualification Review Board.
6. Tampering with any of the seals on the products will void the warranty.
7. THERE ARE NO OTHER EXPRESS WARRANTIES, WHETHER WRITTEN OR ORAL, OTHER THAN THIS PRINTED LIMITED WARRANTY. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL ERICSSON BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS. TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY LAW.

International Service

If your Ericsson Product needs service in another country than the one you bought it in, you can have your Ericsson Product serviced within the warranty period in any country where this **identical** Product is sold by an authorized Ericsson distributor. To find out if your Product is sold in the country you are in, please call the local Call Centre. In order to be granted service you have to present your original receipt. Please observe that certain services may not be possible elsewhere than in the country of original purchase for

example due to the fact that your Ericsson Product may have an interior or exterior which is different from equivalent models sold in other countries. There may also be limited possibilities to repair SIM-locked Products.

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

Declaration of Conformity

**We, Ericsson Mobile Communications AB of
Torshamnsgatan 27
S-164 80 Stockholm, Sweden**

declare under our sole responsibility that our product

Ericsson type 1130101-BV

to which this declaration relates, conforms to the appropriate standards TBR 19, TBR 20, TBR31, TBR32, ETS 300 342-1 and EN 60950, following the provisions of Teleterminals directive **91/263/EEC**, EMC directive **89/336/EEC**, and Low voltage directive **73/23/EEC**.

Place & date of issue

CE 0682 ⓘ



FCC Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Icons

The table below shows icons which may appear in standby or in the menus.

Icon	Description
	Your personal phone book.
	Handling of text and voice messages.
	Handling of call time and call cost information.
	Handling of ongoing calls.
	Personal settings, profiles, divert calls, networks and voice control.
	Bluetooth, calendar, synchronization, voice memo, alarm clock and other extras.
	Gives you access to WAP services on the Internet.
	A selection of your most frequently used functions.
	Help text.
	Tells you the strength of the GSM network signal.
	GPRS is within range.
	GPRS is within range and can be used.
	You cannot receive any incoming calls.
	Tells you the status of the battery.
	You have missed an incoming call.
	All incoming calls are diverted to a defined number. No calls or only certain calls from numbers in a list are received.
	A profile other than Normal has been chosen.
	The ring signal is turned off.

Icon	Description
	All signals are turned off, except the alarm and timer.
	The alarm clock has been set and is on.
	You have received a text message.
	You have received a voice message.
	You have received an e-mail.
	You have received a WAP push message.
	The <i>Bluetooth</i> function is on.
	The <i>Bluetooth</i> discoverable mode is on.
	The infrared port is on.
	Line 1 is in use for outgoing calls.
	Line 2 is in use for outgoing calls.
	Ciphering is currently not being provided by the network.
	The keypad is locked.
	The card lock or phone lock is on. A secure WAP connection is established.
	An ongoing call.
	A missed call in the call list.
	An answered call in the call list.
	A dialled number in the call list.
	A text message has not been read.
	A voice message has not been checked.
	An e-mail has not been read.
	You can enter the phone book by pressing  .
	A text message is saved on the SIM card.

Icon	Description
	A voice label has been recorded for this entry.
	A <i>Bluetooth</i> headset, not paired with your phone.
	A <i>Bluetooth</i> headset, paired with your phone.
	A <i>Bluetooth</i> phone, not paired with your phone.
	A <i>Bluetooth</i> PC, not paired with your phone.
	A <i>Bluetooth</i> printer, not paired with your phone.
	A <i>Bluetooth</i> PDA, not paired with your phone.
	A <i>Bluetooth</i> Home Base, not paired with your phone.
	A meeting in your calendar.
	An all day calendar appointment.
	A recurrent calendar appointment.
	A reminder is set for a calendar appointment.
	A task in your calendar.
	A task of high priority.
	A task of low priority.
	The task is to make a phone call.
	The task is to write a message.
	The network is preferred and can be used.
	The network is forbidden and cannot be used.
	Your network is within range and can be used.

Quick Keys

The table describes some of the most useful key combinations.

To...	Do this when in standby:
make an emergency call	enter the international emergency number and press YES
enter and move through the main menus	press  or 
move up and down in the sub-menus	press  or 
enter the Call list	press YES
voice dial	press and hold YES or slide and hold the volume key up or down
call your Voice mail	press and hold 1
enter the + sign to make an international phone call	press and hold 0
set the phone to silent	press and hold C
reach a phone book entry beginning with a specific letter	press and hold any of the keys 2-9
reach a phone book entry at a specific position.	press the position number and #
speed dial	press any of the number keys 1-9 and YES
enter Find and call	press and hold 
enter the first sub-menu of the My Shortcuts menu	press and hold 
see which profile you are using	slide the volume key up or down
see today's date	slide the volume key up or down
change the language to Automatic	press  8888 
change the language to English	press  0000 
reject a call	quickly slide the volume key up or down twice when receiving a call

To...	Do this during a call:
put a call on hold	press YES
retrieve a call	press YES again
turn off the microphone	press and hold C
To...	Do this when in the menus:
move through menus or lists	slide (and hold) the volume key up or down
select a menu or setting	press YES
enter an optional menu	press 
delete an item	press and hold C when in lists
go back to standby	press and hold NO
To...	Do this when entering letters:
reach the second letter or character of a key	slide the volume key up and press any of the number keys
reach the third letter or character of a key	slide the volume key down and press any of the number keys
shift between capital and lower-case letters	press *
enter numbers	press and hold any of the number keys
enter a space	press 1
enter a question mark	slide the volume key down and press 1
enter the @-sign	slide the volume key down and press 0
enter a p (pause)	press * when saving codes or when composing melodies
delete letters and numbers	press C

A quick way to move through the menus is to use **shortcuts**. You simply enter the number of the menu or sub-menu to which you want to go. See “Using Shortcuts” on page 19 and “Instructions” on page 19.

You can quickly and easily reach the settings you use most by placing them in the menu **My Shortcuts**. See “My Shortcuts” on page 21.

For more information about **key functions**, see “Key Functions” on page 17, “Moving through the Menus” on page 19 and “Entering Letters” on page 30.

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