Mobile Phone

R300d

User's Guide

DRAFT

ERICSSON

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3/00

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Document Conventions

- Menu names are shown in the following typeface: **MENUS**.
- Submenu names are shown in the following typeface: **Submenu Names**.
- Key names are shown in the following typeface: **BACK**.
- Text that is seen in the phone's display is shown in the following typeface: `displays`.

> The quick access shortcuts to your phone's menu and settings are identified by this shaded box.

- When this guide instructs you to press a key, press and release the key.
- When this guide instructs you to press and hold a key, press and hold the key for one to two seconds.
- When this guide instructs you to press two keys, press one then press the other. For example, press **MENU 1** means press **MENU** then press **1**.
- Press the down arrow for at least one second when you see this symbol ( ).
- Press the up arrow for at least one second when you see this symbol ( ).

Guidelines for Safe and Efficient Use

Since its introduction in the mid 1980s the mobile phone has been one of the most exciting and innovative products ever developed. Your phone can help you to stay in touch with your office, your home, emergency services and others.

Safety

Exposure to Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both US and international standards bodies:

- ANSI C95.1 (1992)*
- NCRP Report 86 (1986)*
- ICNIRP (1996)*

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

** American National Standards Institute: National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection.*

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

TIPS ON EFFICIENT OPERATION: For your phone to operate most efficiently:

- Extend your antenna fully (where applicable).
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Driving

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

- Give full attention to driving – driving safely is your first responsibility.
- Use handsfree operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

In addition, Ericsson suggests the following safe driving tips if you are using your phone while driving:

- Get to know your wireless phone and its features such as speed dial and redial.
- Position your wireless phone within easy reach.
- Suspend conversations during hazardous driving conditions or situations.
- Do not take notes or look up phone numbers while driving.

- Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.
- Do not engage in stressful or emotional conversations that may be distracting.
- Use your wireless phone to call for help.
- Use your wireless phone to help others in emergencies.
- Call roadside assistance or a special wireless non-emergency assistance number when necessary.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6”) inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. 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 fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including both 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 bodily injury could result.

Product Care and Operation

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.

Ericsson suggests you read and observe the following for safe care and operation of your phone:

- Do not allow children to play with your phone. They could hurt themselves or others, or could accidentally damage the phone. Your phone may contain small parts that could be detached and create a choking hazard.
- Do not expose your mobile phone to moisture or extreme temperatures.
- Only Ericsson original accessories are recommended. Failure to use them may result in loss of performance or product damage, and will void the warranty.
- Do not attempt to disassemble the product. Doing so will void warranty. This product does not contain consumer serviceable components. Service should only be performed by Authorized Service Centers.
- Do not allow objects to fall on, or liquids to spill on products.
- Connect AC (power supply) only to designated power sources as marked on the product.
- To reduce risk of damage, remove the electrical cord from the outlet by pulling the AC adapter at the outlet rather than the cord.
- Make sure the electric cord is located 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 the power source before attempting any cleaning. Once unplugged, use a soft cloth lightly dampened with water for cleaning.
- DANGER – Never alter the AC cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in risk of electric shock.
- Don't twist the antenna. Excess twisting will damage the antenna.
- Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (i.e., at the ear and worn on the body) as required by the FCC for each model. Body worn measurements are made while the phone is in use and worn on the body with an Ericsson accessory. The design and composition of an accessory can affect the body worn Specific Absorption Rate (SAR) levels for the phone. Ericsson has not measured, and makes no representation about the body worn SAR levels when the phone is used with non-Ericsson accessories.

Battery Information

New Batteries

The battery packaged with your phone is not fully charged. For maximum battery capacity, use your charger to condition the battery.

Recycling Your Battery

Your phone manufacturer is a member of the Rechargeable Battery Recycling Corporation (RBRC), a non-profit service organization designed to assist in the recycling of rechargeable batteries. Many areas require the recycling of rechargeable batteries. In the U.S., call 1-800-822-8837 to find out how to recycle your battery. Outside the U.S., contact your local retailer for recycling instructions.

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, should be conditioned before using your phone. Avoid recharging a fully-charged or almost fully-charged battery. If your phone shuts off due to low battery power, you should charge the battery within 24 hours for the battery to reach full capacity.

- Do not leave your battery where it may be subjected to extremely hot or cold temperatures. This could reduce the battery's capacity.
- Do not let the metal contacts on the battery touch another metal object such as keys in your pocket. This could short-circuit and damage the battery.
- Do not attempt to take a battery apart.
- Do not expose a battery to open flame. This could cause the battery to explode.
- Turn your phone OFF before removing the battery.
- Use only the AC/DC adapter supplied with your battery charger. Using a different adapter could be dangerous and will void your phone warranty.
- Never charge a battery when the ambient room temperature is below 50°F (10°C) or above 105°F (40°C).
- Do not allow the battery to be placed into the mouth. Battery electrolytes may be toxic if swallowed.

FDA Consumer Update

The U.S Food and Drug Administration (FDA) has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones.

The following summarizes what is known – and what remains unknown – about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radiofrequency energy (i.e., radiofrequency radiation) in the microwave range while being used. They also emit very low levels of radiofrequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's

head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna – the primary source of the RF – and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results.

A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously – up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

1 In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

   When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepithelliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually *decreased* with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.[1]

2 Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and

structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.[2]

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

1 Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.[3]

2 In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.[4]

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study.

The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- support needed research into possible biological effects of RF of the type emitted by mobile phones;
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products – and at this point we do not know that there is – it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle,
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or

- a headset with a remote antenna to a mobile phone carried at the waist.

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radiofrequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following websites:

- Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters")
  http://www.fcc.gov/oet/rfsafety
- World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As)
  http://www.who.int/emf
- United Kingdom, National Radiological Protection Board
  http://www.nrpb.org.uk
- Cellular Telecommunications Industry Association (CTIA)
  http://www.wow-com.com
- U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health
  http://www.fda.gov/cdrh/consumer/

Footnotes

1 Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium;1999 June 20; Long Beach, California.

2 Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, D.C.; and personal communication, unpublished results.

3 Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognitive function in man. Int. J. Radiat. Biol., April 8, 1999.

4 Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors: a case-control study. Int. J. Oncol., 15: 113-116, 1999.

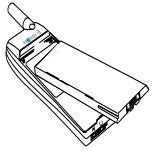
Note! Prior to assembling and using your phone, you may want to read “Guidelines for Safe and Efficient Use” on page 2.

Connecting and Removing Your Battery

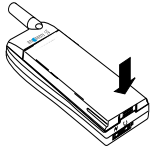
Note! You can find your phone’s model number by removing the battery and looking on the back of the phone.

Connecting Your Battery

1 Place the battery over the back of the phone. The label on the battery should face down. Insert the top portion of the battery into the phone. The tab on the bottom of the battery should be pointing toward the bottom of the phone.

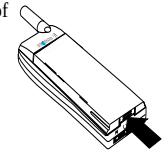


2 Press down until you hear a click. The battery is now connected.

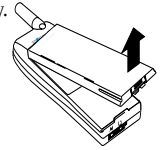


Removing Your Battery

1 Remove the battery by pushing in on the tab of the battery with your thumb.



2 Lift the battery up and out of the battery cavity.

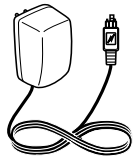


Charging Your Battery

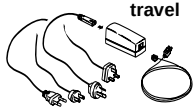
Your Charger

Your phone was packaged with either a rapid or travel charger. It is important that you fully charge your battery before you use your phone. Both chargers supply power to charge your battery while the battery is attached to your phone. If your phone is On, it can receive calls while using either charger.

rapid



travel



Note! **NEVER** attach the charger to a phone that does not have a battery installed.

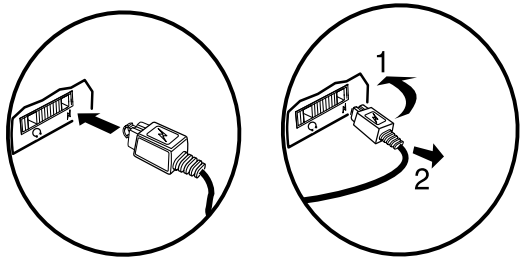
1 If you have a rapid charger, plug the charger into a standard wall electrical outlet. If you have a travel charger, connect the appropriate AC power cord and phone charging cord to the travel charger.

2 Hold the phone with the display and keypad facing up.

3 Hold the small plug on the charger cord so the lightning bolt symbol ( ) is up.

4 Align the small plug on the charger cord with the connector on the bottom of your phone. The connector on the phone is above the lightning bolt symbol ( ).

5 Press the plug into the connector until the plug "snaps" into place. The icon is alternated with the icon when the phone is powered on and the phone is charging.



Note! Do not twist while inserting or removing the small plug on the charger cord!

6 Continue charging the phone until the battery is fully charged.

7 To disconnect the charger, lift the plug connected to the phone upwards and pull it out.

Charge-Only Mode

If your phone is off, attaching the charger will cause the phone to activate in charge-only mode. When this mode is activated, the message `Charging Only` appears in the display. Your phone is now fast (rapid) charging the battery. When your phone is fully charged, `Battery Charged` appears in the display.

Note! You cannot make or receive calls when your phone is in charge-only mode.

Slow (Trickle) Charging a Deeply Discharged Battery

The battery could become deeply discharged (for example, when the battery is stored for a long period). As a result, the phone may not

immediately activate charge-only mode when the charger is connected.

1 Attach the charger to the phone for several hours to slowly charge (trickle charge) the battery.

2 After trickle charging the battery for several hours the phone should activate the charge-only mode automatically.

3 Continue charging the phone until the battery is fully charged.

Learning About Your Mobile Phone

Your Ericsson mobile phone features quad-mode technology. For Voice Operation, it operates in three modes – two Digital ( ) modes (800 and 1900 MHz frequency bands) and one Analog ( ) mode (800 MHz range). The fourth mode of operation is data. The Globe Icon ( ) means that you have established a connection with the data network. The built-in browser allows you access to the world of information on the Internet.

Highlights of Your Phone

Data Operation

- Microbrowser for sending/receiving email and for Internet access
- Wireless Modem Operation
- Tegic® T9® Text Entry
- Server-based Contacts and Calendar (dependent upon your service provider)
- WAP page capability
- Secure HDML page capability
- Support for Phonebook download
- Bookmark creation
- Bitmap image support

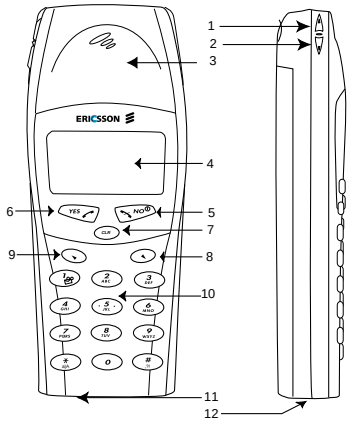
Voice Operation

- 27 ring types (with musical melody ring options)
- Editable musical ring melodies
- Caller ID (last 40 numbers)
- Quick call-back feature to respond to text messages
- Storage for 400 numbers in the phonebook
- Speed dial for 99 numbers including voice mail
- Super dial for 9 numbers including voice mail
- Dialing for 2 different calling cards
- Quick access to the last 40 numbers dialed
- Receives short message service (SMS) messages with 16KB of storage
- Quick access to voice mail service
- Call duration reminder
- Time and date
- Stopwatch
- Alarm
- Profiles
- Groups
- Call Screening
- Call Restrictions
- User-customizable greeting
- Multiple language support

The Parts of Your Phone

The following is a list of the terms used in this user's guide to describe your Ericsson mobile phone:

1 Upper Side Key
2 Lower Side Key
3 Earpiece
4 Display
5 **NO** key (right softkey)
6 **YES** key (left softkey)
7 Clear (**CLEAR**) key
8 Down Arrow (▼)
9 Up Arrow (▲)
10 Keypad
11 Microphone
12 Accessory Connectors



Turning Your Phone On and Off

Turn your phone Off by pressing and holding **NO** until your phone turns off. Turn your phone On by pressing and holding **NO** until your phone turns on.

Operating Your Phone

You can use your Ericsson mobile phone in Voice, Browser, and Wireless Modem Operation.

Voice Operation offers you all of the benefits of a traditional mobile telephone, including placing and answering calls, and receiving voice and text messages.

Browser Operation allows you to browse the Internet and view web content on your Ericsson mobile phone.

Wireless Modem Operation allows you to use your phone as a modem with your laptop or desktop computer to browse the Internet, displaying web content on your computer screen.

Voice Operation

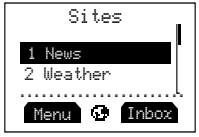
When you see a screen similar to the one shown below, your phone is ready to make and receive voice calls.

For more information about Voice Operation, see "Voice Operation" on page 9.

Browser Operation

Your phone includes a built-in browser that allows you to access Internet content designed especially for mobile phones. This content typically includes Email, Calendar, and Contacts.

While in Browser Operation, your phone displays information (content) retrieved from the Internet via the digital network. The content available to your phone is determined by your content provider.



Email

Your content provider can enable email as an application for use with your browser. If this feature is enabled, you can send and receive email to anyone with an Internet email address.

Calendar

Your content provider can enable the calendar application for use with your browser. If this feature is enabled, you can set meeting reminders as Alerts and also set future appointments.

Contact List

Your content provider can enable the contact list for use with your browser. If this feature is enabled, you can look up addresses to call, view, or email.

The World

You have access to the world from your Ericsson mobile phone in Browser Operation. This includes maps, games, stock quotes, weather, and a host of other applications.

For more information on Browser Operation, see “Browser Operation” on page 32.

Wireless Modem Operation

You can use your phone in Wireless Modem Operation when it is powered on with the proper cable attached from your phone to your computer. An Ericsson accessory kit may be required to use your phone in Wireless Modem Operation. Your phone is in Wireless Modem Operation when you see the following standby screen.

For more information about Wireless Modem Operation, see “Wireless Modem Operation” on page 40.

Switching Between Modes of Operation

Switching From Voice to Browser Operation

There are three easy ways to switch from Voice Operation to Browser Operation:

1 Press and hold the **MENU** key.

2 To select the **BROWSER** menu tab:

- Press **MENU**.
- Press ▲ or ▼ until **BROWSER** is selected.
- Press **YES**.

3 Press **MENU 5**.

Note! The factory default setting for your phone's power-on option is Voice Operation.

Switching from Browser to Voice Operation

There are two easy ways to switch from Browser Operation to Voice Operation:

1 Press and hold the **MENU** key.

or

2 To select Voice Mode from the TOOLS menu:

- Press **MENU**.
- Press ▲ or ▼ until VOICE MODE is selected.
- Press **YES** to select VOICE MODE.

Switching to Wireless Modem Operation

To switch from Voice or Browser Operation to Wireless Modem Operation, see "Wireless Modem Operation" on page 40.

Accessories, Accessibility, and Internet

Technical Assistance/Ordering Accessories

- North America - 1-800-ERICSSON (1-800-374-2776)
- Latin America 1-305-755-6789
- Other countries, call 1-919-472-7908

Accessible Solutions/Special Needs

For information on Accessible Solutions for individuals with Special Needs, call the Ericsson Special Needs Center at 877-878-1996 (TTY) or 877-207-2056 (voice), or visit the Ericsson Special Needs Center at http://www.ericsson-snc.com.

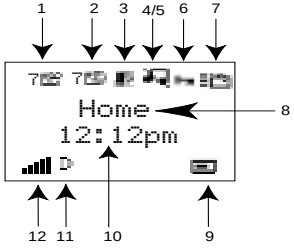
Internet

Visit Ericsson on the internet at http://mobile.ericsson.com.

Voice Operation

In Voice Operation, you can make and receive telephone calls; work with your voice mail and messages; change your phone's voice settings; add, edit, or delete entries from your phonebook; and make credit card calls.

Your Display in Voice Operation



1 New Voice Mail Icon ( ) indicates the number of voice mail messages that have not been heard.

2 New Text Mail Icon ( ) indicates the number of text messages that have not been read.

3 Alarm Icon ( ) appears if the alarm is set.

4 Ringer Off ( ) Icon indicates that your phone will not make ring sounds.

5 Phone Silent ( ) Icon indicates that your phone will not make any keypad or ring sounds. Press **MENU #** to access Phone Silent.

6 Keypad Lock Icon ( ) indicates that pressing the keys has no effect. The keypad is locked to prevent inadvertent key presses. Press **MENU *** to toggle **Keypad Lock** on and off.

7 Active Profile Icon indicates the currently-selected profile. Possible profile icons include Normal (no icon), Discreet ( ), Leisure ( ), Work ( ), Travel ( ), Handsfree ( ), and My Profile , , and .

8 Standby Screen indicates that the phone is in standby mode and is ready for use. The text label for your current network is displayed.

9 Battery Icon ( ) shows the relative strength of your battery. A full icon indicates a fully-charged battery. If the phone is connected to external power and the battery is charging, the display alternates between the battery icon and the charging icon ( ).

10 Current Time is displayed.

11 Analog/Digital Channel Indicator shows whether the phone is operating in analog ( ) or digital ( ) mode.

12 Signal Strength Icon ( ) shows the relative signal strength from the wireless system. More bars indicate a stronger signal.

Main Menu

- The main menu has six icons that display the top-level menu options. The corresponding title of the selected option is displayed below the menu tabs when highlighted. Each menu is represented by an icon.

You can use one of the menu tabs that appear when you press **MENU** once from the Standby screen. Press **YES** to select or press ▲, ▼, or **MENU** to scroll to the menu item you want to choose. You can also press the number associated with the menu item to go directly to the submenu.

Option 1 is the **PHONEBOOK** menu
(see “Phonebook Menu” on page 24).

Option 2 is the **MESSAGES** menu
(see “Messages Menu” on page 25).

Option 3 is the **CALL INFO** menu
(see “Call Info Menu” on page 26).

Option 4 is the **SETTINGS** menu
(see “Activate Scratch Pad” on page 27).

Option 5 is the **BROWSER** menu
(see “Browser Menu” on page 37).

Option 6 is the **PROFILES** menu
(see “Profiles Menu” on page 37).

Accessing Menus

Press **MENU** to access the main menu:

1 Press ▲, ▼, or **MENU** to scroll through menu, functions in menus, and settings in a function.

2 Press **YES** to choose the menu, function, or setting that is selected.

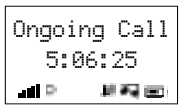
3 Press **NO** to go back one level in the menu structure.

4 Press **BACK** to exit the menus completely.

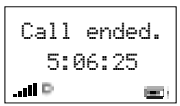
Voice Operation Display Messages

The following are common display messages on your mobile phone:

Your phone is receiving a call.



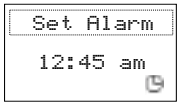
You have an active call.



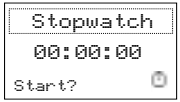
Your call has ended.

The phone is searching for the optimal wireless system.

The keypad is locked to prevent inadvertent key presses.



You can set the alarm on your phone.



You can use the stopwatch on your phone.

Note! Icons appearing on your phone's display differ in Voice, Browser, and Wireless Modem Operation.

Voice Calls

Placing a Call

1 Press the numeric keys to enter the phone number you want to call. The number is shown in the display.

Note! You can press **BACK** to erase one or more digits in the display, or press and hold **BACK** to erase all digits.

2 Press **YES**. `Calling`, along with the number you are dialing, or the corresponding Phonebook name, is shown in the display while your phone accesses the wireless network.

3 When the call is connected, `Ongoing Call`, along with your call timer, is shown in your display. The phone number that you dialed will remain on your screen after you end the call.

4 To end the call, press **NO**.

Redialing the Last Number You Called

Your telephone temporarily stores numbers you have previously called. To view these numbers, press **YES** from the Standby screen when no other digits are in the display. The last number you called is shown in the display. Press ▲ or ▼ to scroll through other stored numbers. You can place a call to a number shown in the display by pressing **YES** to display the number. Then you can change or add digits if appropriate. Press **YES** again to dial the number. You can delete a number from the **Outgoing Calls** by pressing **BACK**. You can save a phone number from the **Outgoing Calls List** or **Incoming Calls List** by pressing and holding **YES** while the number is highlighted in the list and by pressing **YES** again to confirm the addition of the number to your phonebook.

Stop and Pause Dialing

Stop and pause dialing lets you enter groups of numbers with stops and pauses between each group of numbers. This feature is useful when you need to dial a phone number and then another number, such as an access number for an answering machine or voice mail system.

A stop causes the phone to stop transmitting numbers until you press any key except **NO**. You can enter a stop in a series of digits by pressing and holding **#** until ■ is shown in the display.

A pause temporarily suspends transmitting numbers for approximately two seconds before sending the next series. You can enter a pause in a series of digits by pressing and holding * until ▮ is shown in the display. For example, if your office has a voice mail system that requires you to dial a phone number, followed by your extension, followed by an access code.

For example, you could enter the following:
555-1111■2222▮33333.

When you press **YES**, your phone dials the number and then stops transmitting tones. When your voice mail system asks for your extension you would press any key except **NO** to transmit your extension. The access code is sent after the pause. If the timing in your voice mail system does not allow for pauses, you can enter a stop instead of the pause, or use multiple pauses.

You can also store groups of numbers which can include stops and pauses in a phonebook location. You can then dial the numbers by entering the phonebook location and pressing **YES**.

Using Your Phonebook

Creating Phonebook Entries

You can add entries to your phonebook by doing the following:

1 Press **MENU** from the Standby screen to access the main menu.

2 Press **1** to display the **PHONEBOOK** menu

3 Press **1** to select **Add Entry**.

4 Press ▲ or ▼ to scroll to the name and number line. Your phone will automatically select the next unused position to store your new phonebook entry. See the next section to learn how to enter names in your phonebook.

5 Press **YES** to store the new entry.

Entering Letters and Symbols

Press the appropriate key, 0-9, #, or * repeatedly until the desired letter, character, or digit appears in the display. For example, to enter an A, press the numeric key 2 once. To enter a B, press the numeric key 2 twice.

Press...	For...
1	Space 1
2	A B C 2 À Á Â Ã Ç
3	D E F 3 È É Ê Ë
4	G H I 4 Í Î Ï
5	J K L 5
6	M N O 6 Ñ Ó Ô Õ
7	P Q R S 7
8	T U V 8 Ù Ú Û Ü
9	W X Y Z 9
0	0
*	Toggles between uppercase, lowercase, and autocase (automatic capitalization after a period).
#	. , : _ ; ? ! ¿ ¡ " ' ‘ « » ( ) [ ] + - = / * < > % $ # & | ~ ^ { } @

Note! Character sets vary according to language selection.

Answering Calls

When your phone receives a call, the ringer sounds, Incoming Call appears in the display, and the display and keypad backlight illuminate. You can temporarily silence the ringer by pressing **NO** or the upper or lower side keys, and still answer the call by pressing **YES**. If you have Caller Number Identification (Caller ID) service from your service provider, the caller's phone number, or the corresponding Phonebook name, is shown in the display.

Answer the phone by pressing **YES**. For information on adjusting your answering preferences, see "Answer Option" on page 29. Incoming Call is replaced by the call timer display once the call is answered. End the call by pressing **NO**.

Call Waiting

If you have call waiting service from your service provider, press **YES** to answer a call when you receive the call waiting signal. You can switch between the two calls by pressing **YES**.

Note! *Do not* press **NO** until you are ready to end both calls.

Unanswered Calls

Your Incoming Calls shows the number of calls you have received but did not answer. Press **YES** from the Missed Calls Indicator screen to access Incoming Calls.

You can clear the number of missed calls from the display by pressing any key except **YES**. If Caller Number Identification is available from your carrier, unanswered calls will be stored in the **Incoming Calls** of the **CALL INFO** menu. Press **YES** from the Missed Calls Indicator screen to access the Incoming Call Log, or access the log in the **CALL INFO** menu. The ▬ icon indicates a missed or unanswered call.

Temporarily Muting the Ring Tone

To temporarily mute the ring tone without answering the call, press **NO** or the up or down side volume keys. Incoming Call is still shown in the display, and you can still answer the call by pressing **YES**. For information on adjusting your answering preferences, see "Answer Option" on page 29.

Caller Number Identification

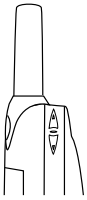
If your service provider has Caller Number Identification (Caller ID) service, your phone shows the phone number of an incoming call in the display. If the number is one that you have stored in your phonebook with a name, the name and phone book position is shown when your phone rings. If the Caller ID information is not available, the message NO ID is shown in the display. The word Anonymous may be shown if the Caller ID is restricted by the service provider or by the caller.

Muting the Microphone During a Call

To mute the microphone during a call, press and hold the **BACK** key. Mic Muted appears in the display when the call is muted. Repeat this procedure to unmute the microphone.

Note! You cannot mute the microphone during an emergency call.

Adjusting Ear Volume During a Call



To increase the ear volume during a call, press the upper key on the side of your phone.

To decrease the ear volume during a call, press the lower key on the side of your phone.

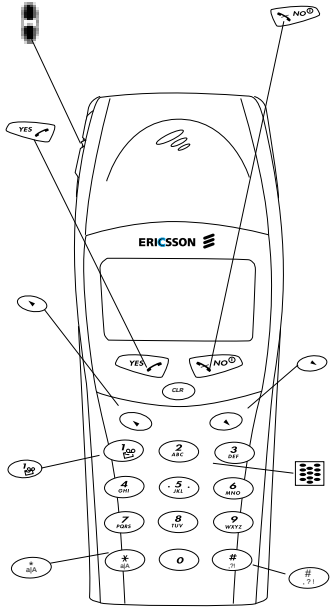
Low Battery Power Alert

The low battery alert sounds when your battery is reaching its lowest operational power level. The words `Low Battery!` will appear in the display. When this happens, connect your phone to your Ericsson charger to recharge your battery or replace it with
a fully charged battery. If leave your phone turned on, the phone discharges the battery and then automatically turns off. Charge the battery within 24 hours after a complete discharge so that the battery can charge to full capacity.

International Calls

If allowed by your service provider, you can place international calls with your phone just as you would from any other phone.
If you have difficulty completing international calls, check with your service provider for information.

Voice Operation Key Functions



	• Press either key to temporarily mute the ringer when receiving a call. • Press to change the earpiece volume during a call. • Press to illuminate the backlight.
	• Press to answer a call. • Press to access last dialed number from the Standby screen. • Press to send a call after entering a phone number. • Press to store menu settings.
	• Press and hold to turn your phone On or Off. • Press to end a call. • Press to exit a menu. • Press to temporarily mute the ringer when receiving a call. • Press to clear the current display text.
	• Press to return to the Standby screen. • Press to erase the last digit entered on the display. • Press and hold to delete all digits or letters you entered. • Press and hold to delete numbers in the Phone Book. • Press and hold during a call to mute the microphone. • Press to delete a text message.
	• Press to go to the main menu. • Press from the main menu to tab right through the menus. • Press and hold to switch to Browser Operation.

	• Press and hold for quick access to voice mail (if enabled).
	• Press keys 1-9 for digit entry (if enabled). • Press and hold keys 1-9 for Super dial (if enabled).
	• Press and hold for a Pause (▮▮) character in a dial string • Press to select or deselect items (group members, am/pm, message alert options). • Press **MENU** * for Keypad Lock.
	• Press and hold for a Stop (■) character in a dial string. • Press to select or deselect group members. • Press **MENU** # for Silent Mode.

Phonebook Menu

MENU 1

The **PHONEBOOK** menu contains the following choices for storing, organizing, recalling phone lists and group information.

Find and Call

The **Find and Call** submenu allows you to dial a phone number by the name stored with the phone number or by the phonebook position number.

Find and DTMF

Add New Contact

The **Add New Contact** submenu allows you to store a phone number and an accompanying name in your phonebook.

Find and Edit

The **Find and Edit** submenu allows you to change your phonebook entries.

My Number

The **My Number** submenu is used to display the wireless phone numbers that correspond to the subscriptions that are programmed into your phone.

Note! If your service provider allows multiple phone numbers, the **My Number** submenu allows you to switch between phone numbers.

Position Organizer

Messages Menu

MENU 2

The **MESSAGES** menu contains choices for specifying and accessing message services that may be available from your service provider (for example, text messages and voice mail).

Check Voice Mail

The **Check Voice Mail** submenu allows you to enter and access your voice mail access number, if you have voice mail service from your service provider. A number and the voice message icon ( ) appear in the Standby screen to indicate the number of new unread voice messages. The two options for the **Voice Mail** submenu are Call and Configure.

Inbox

The **Inbox** submenu allows you to display the list of read and unread text messages you have received. The subject line or the first few words of each message, is displayed. Press **YES** to view the message. From this list, the user can choose to read a message, or return to the previous menu.

You can scroll through the list of messages by using the ▲ or ▼ key. Once a message is read, press **YES** to see the five options for the selected message: Reply, Forward, Delete, Callback List, and Lock/Unlock. Temporarily unavailable options are grayed out.

Note! Lock/Unlock toggles message auto deletion off and on. Unsent and unread messages are automatically locked.

Send New Text

The **Send New Text** submenu is used to enter and send a new text message. To enter letters and symbols in your message, see “Entering Letters and Symbols” on page 21.

Note! If your message approaches the maximum message length, you will see a character countdown indicator in the upper left corner of the screen.

When you forward a message, you will also forward the original body of the message. However, when you reply to a message, you can

choose to include the original, use a canned message, or start with a blank message.

Note! The maximum message length varies according to service provider

Once you have entered the text you want included in your SMS, press **YES**. You will be prompted with Send Now? to confirm that you are ready to send the message. Press **YES** to send the message or **NO** to save the message as a draft.

Note! To send a message, you must enter a 10-digit number (unless Auto Prefix is enabled).

Unsent Items

The **Unsent Items** submenu allows you to display a list of saved draft messages and messages that were not successfully sent. They are displayed with the subject, if available, or the first few words of text in the order in which they were created. You can scroll through the list of messages by using the ▲ or ▼ key. The three options for a selected message in the **Unsent** submenu are Send, Edit, and Delete.

Templates

Templates allows you to use the 10 editable templates instead of creating an original message. For example, a canned message is "I will be <____> late for <____> on <____>." You can edit the canned message text by scrolling to the blanks in the message using the ▲ or ▼ key to quickly fill in the necessary information.

Once you have entered the text you want included in your SMS, press **YES**. You will be prompted with Send Now? to confirm that you are ready to send the message. Press **YES** to send the message or **NO** to save the message as a draft.

Sent Items

The **Sent Items** submenu allows you to display a list of sent messages. The message list is displayed with the subject, if available, or the first few words of the messages in the order they were sent. You can scroll through the list of messages by using the ▲ or ▼ key. The five options for a selected message in the **Sent** submenu are Resend, Forward, Delete, Update, and Lock/Unlock.

Note! Update allows you to replace a previously sent message if the recipient has not yet read the original message and has a phone that supports this option. If the previously sent message was already read, then the updated message appears as a new message to the recipient.

Call Info Menu

MENU 3

The **CALL INFO** menu allows you to view information and establish dialing and answering preferences for your phone (some selections available in this menu are dependent on your service provider). It also enables you to view and edit system options and call statistics.

Missed Calls

The **Missed Calls** submenu allows you to list the last 40 calls received (if you have Caller ID service from your service provider).

The latest call appears first. Use the ▲ or ▼ keys to scroll through the last 40 received calls.

If the received number is stored in the phonebook with a name, the name is also shown in the display. To dial the phone number shown in the display, press **YES** twice. To edit the phone number, press **YES** once, then press the ▲ or ▼ key to move the cursor left or right to the digit(s) that you would like to change. Dial the new phone number by pressing **YES**.

Call Log

The **Call Log** submenu allows you to view and edit the last 40 phone numbers that you have called. To dial the phone number shown in the display, press **YES** twice. To edit the phone number, press **YES** once, then press the ▲ or ▼ key to move the cursor left or right to the digit(s) that you would like to change. Dial the new phone number by pressing **YES**. You can also access the **Call Log** by pressing **YES** from the Standby screen.

Incoming Calls

Call Timer

Usage Tracker

The **Usage Tracker** submenu shows you the total hours and minutes that you have used since you last reset your phone. To reset the **Usage Tracker**, press **YES** and `Reset Usage Tracker?` appears in the display. Press **YES** again to confirm reset. `Usage Tracker has been reset!` appears in the display.

Note! The actual time your service provider invoices may vary, depending on items including network features and rounding off for billing.

Total Usage

The **Total Usage** submenu shows you the total number of calls and the total hours and minutes that have been used.

Options

Ongoing Call Menu

MENU 4

Activate Scratch Pad

Hold Call

Switch Calls

Retrieve Call

Release All

Activate/Deactivate

Settings Menu

MENU 5

Note! The profile icon ( ) refers to menu items that are profile-dependent. Profile-dependent menu items indicate settings that may be customized for every profile to suit a particular environment. For more information about Profiles, see the "Profile" section at the end of this chapter.

Sounds

Ear Volume

The **Ear Volume** submenu allows you to adjust the volume of the earpiece using the menu setting. You can also adjust the volume during a call by using the side volume keys. There are five volume levels. You can make your selection by pressing ▲ or ▼. Then press **YES** to confirm your selection.

Edit Melodies

The **Edit Melodies** submenu allows you to create a ring melody using each key on your keypad as a note in your melody (1=C, 2=D, 3=E, 4=F, 5=G, 6=A, 7=B, 8=+C, 9=+D, 0=+, *=pause, #=#). Press # to make the previous note sharp or flat.

Note! The + sign indicates an octave higher.

To clear your melody, press the ▼ key to select the location you want to clear. Press **BACK** to delete the location. Press and hold **BACK** to delete the entire melody.

The two options for Edit Melodies are My Melody 1 and My Melody 2.

Note! Volume is the same as your current Ring Volume.

Key Sound

The **Key Sound** submenu allows you to choose the sound made when you press keys. The four options for Key Sound are Click, Continuous, Burst, or Silent.

Ring Sound

The **Ring Sound** submenu allows you to choose the type of sound or melody for the ringer. Each sound or melody is demonstrated as you scroll through the selections. There are 27 ring sounds.

Message Alert

The **Message Alert** submenu allows you to set the audible alert for Emergency, Urgent, or Normal delivery for a particular message.

Profiles

Your Ericsson mobile phone has nine user-customizable profiles that allow you to adapt to several different operating environments throughout the day. Your phone has been designed to allow you to easily switch into and out of each profile. Many features located throughout your menu are profile settings. These settings are indicated by the profile icon ( ). Each profile feature can be set to a different value for every profile. The following tables outline your default profile settings:

	Normal	Discreet	Leisure
Key Sound	Tone	Off	Tone
Ring Volume	50%	Silent	75%
Ring Sound	Ericsson	Ericsson	Ericsson
Message Alert	All on	All off	All on
Screen Calls	None	None	None
Auto Area	Off	Off	Off
Auto Prefix	Off	Off	Off
Backlight	Auto	Auto	Auto
Auto Activate	N/A	N/A	N/A
Answer Option	**YES** key	**YES** key	**YES** key

	Work	Handsfree	Travel
Key Sound	Tone	Tone	Tone
Ring Volume	50%	75%	50%
Ring Sound	Ericsson	Ericsson	Ericsson
Message Alert	All on	All on	All on
Screen Calls	None	None	None
Auto Area	Off	Off	Off
Auto Prefix	Off	Off	Off
Backlight	Auto	Auto	Auto
Auto Activate	N/A	On	N/A
Answer Option	**YES** key	Auto Answer	**YES** key

In Normal profile, for example, you can program your phone's **Ring Volume**, **Ear Volume**, and **Key Sound** volume to a moderate level. When you attend a meeting, you can quickly change from Normal profile to Meeting profile.

Note! Your current profile is indicated by the icon in the upper right corner of the Standby screen. Your normal (default) profile does not have an icon.

The **PROFILES** menu contains the following submenus:

Select Profile

1 Use the **Change Profile** submenu to select an operating profile for your mobile phone. **Active Profile Icon** indicates the currently-selected profile. Possible profile icons include Discreet ( ), Leisure ( ), Work ( ), Travel ( ), Handsfree ( ), and My Profile , , and .

2 When you use your Ericsson handsfree or mobile car kit, the handsfree profile ( ) is automatically activated (see "Auto Activate" below).

Note! You can also press and hold or to change your profile.

Call Options

Answer Option

The **Answer Option** submenu allows you to select one of the following methods for answering calls:

- **YES** key - Press **YES** to answer calls.

- Any key - Press any key to answer calls.
- Auto Answer - Calls will be answered automatically after one ring while in handsfree profile (this option is only visible in handsfree profile).

Super Dial

The **Super Dial** submenu allows you to dial a phone number stored in phonebook positions 1 through 9 by pressing and holding the numeric key corresponding to the phonebook position. The two options for **Super Dial** are On and Off.

Speed Dial

The **Speed Dial** submenu allows you to dial a phone number stored in a phonebook position by entering the 1- or 2-digit position and pressing **YES**. The two options for **Speed Dial** are On and Off.

Add Area Code

The **Add Area Code** submenu allows you to store an area code that will be automatically added to the 7-digit phone number you are dialing. Enter the area code, then select On to activate the feature.

The two settings for this function are On and Off. The area code is automatically added to the phone number you are calling when **Add Area Code** is set to On. **Add Area code** does not add the area code to phone numbers shown in the display by Caller ID, but you may edit those phone numbers.

Auto Prefix

The **Auto Prefix** submenu allows you to store a 1- to 12-digit prefix, which is automatically added to the dialed phone number. When you dial a 4- or 5-digit phone number, the prefix is automatically added to the phone number.

In order to send a number to office extensions, store the 3-digit prefix in the **Auto Prefix** submenu. You only need to dial the last 4 or 5 digits of the phone number.

For example, if you save 123 as the auto prefix and the function is On, you can call 123-7654 by simply dialing 7654. The prefix 123 is automatically added to the phone number after you press **YES** to dial the phone number. The auto prefix is not added for phone numbers longer than five digits.

Calling Cards

The **Calling Cards** submenu allows you to store calling card numbers to use for making long distance calls.

Note! You will be prompted to enter your PIN to enter the **Calling Cards** submenu.

Setting Up Your Calling Cards

To set up your calling cards, make sure you have the Calling Card Access Numbers (numbers provided by your long distance carrier) and the Verification Numbers (numbers you must enter to allow the calling card call to be completed).

To set up your calling cards, complete the following steps.

1 Press **MENU** from the Standby screen to access the main menu.

2 Press ▲ or ▼ until the **SETTINGS** menu is highlighted.

3 Press **YES** to select the **SETTINGS** menu.

4 Press ▲ or ▼ until the **Call Options** submenu is highlighted.

5 Press **YES** to open the **Call Options** submenu.

6 Press ▲ or ▼ until Calling Cards is highlighted

7 Press **YES** to open the Calling Cards submenu.

8 Press ▲ or ▼ until Default Card, Card 1 Setup, or Card 2 Setup is highlighted.

9 Press **YES** to choose the highlighted selection.
You are prompted to enter your PIN and additional calling card information.

To choose a card to be used as the default card when making calling card calls, navigate to the **Default Card** submenu and select that card.

Note! Only cards that have been set up will appear as options for Default Card.

Making a Calling Card Call

1 Enter or recall the phone number you want to call.

2 Press and hold **YES**. The calling card number and the active calling card are shown in the display.

3 Release the key after the number has been displayed.

If you are using stops between numbers, you must press **YES** or any number key to send the next sequence of numbers. If you use pauses, the numbers are sent automatically after the specified length of time chosen for the dialing delay.

Display

The **Display** submenu is used to change the Backlight and Greeting on the display of your phone.

Backlight

Use the **Backlight** submenu to set the display and keypad backlighting to stay Off or to automatically turn On for 20 seconds when a call is received or a key is pressed. The two settings for **Backlight** are Auto and Off.

Greeting

Use the Greeting submenu to alter the information that is displayed when your phone is powered on. You can select which of the three options you prefer by pressing the * or # key to check or uncheck the checkbox next to the highlighted item (☑). When you are finished, press **YES**. If Greeting Text is checked, you will be prompted to edit your power on greeting.

Language

The **Language** submenu allows you to select the display language used in the phone display. The languages vary between markets. Your mobile phone supports English, French, Spanish, Portuguese, Russian, and Hebrew.

Note! Not all languages are available in every market.

Clock

The **Clock** submenu allows you to set the time, time format, stopwatch, and alarm on your phone. The clock will then appear on your Standby screen.

Set Time

Enter the correct time using the keys on your keypad. Press any number key to toggle am/pm while am/pm is blinking (if applicable). Press **YES** to confirm the current time. You can press ▲ or ▼ to

advance through the hours, minutes, and am/pm selection. Press **YES** to confirm the current time.

Note! Removing your phone's battery for an extended period of time will cause a prompt to appear asking you to verify the current time and date.

Set Date

Enter the correct date using the keys on your keypad. Keep in mind that the date format is MM-DD-YY. You can press ▲ or ▼ to advance through the month, day, and year selection. Press **YES** to confirm the current date.

Time Format

Switch between am/pm and 24-hour time format. Change to time format on your phone by pressing ▲ or ▼ until the format you want is selected. Press **YES** to confirm your selection.

Note! Time format varies according to language selection.

Tools Menu

MENU 6

Voice Memo

Calendar

Time Functions

You can use the Clock on your phone much like an ordinary Stopwatch. Press **YES** to start the Clcck when prompted. Press **YES** to Pause the Clock once it has started. Press **BACK** to reset the Stopwatch.

Games

Your phone has five different games fro your enjoyment. There are help texts avaiblle ine ach game as a guide for you to get started.

- Tetris®
- Erix
- Ballpop
- E-maze
- Solitaire

Synchronization

Calculator

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

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

WAP Services Menu

MENU 7

When you select the Browser menu tab, your phone switches to Browser Operation. Press **MENU** from your Home Page for the **TOOLS** menu, which will give you options for your browser. For more information, see “Tools in the Browser” on page 35.

Homepage

Homepage takes you to the Homepage that you have specified.

Enter URL

Enter URL allows you to enter a URL address that you want to go to.

Ericsson Mobile Internet

Ericsson Mobile Internet takes you directlyt to the Ericsson Mobile Internet page.

WAP Options

My Menu

MENU 8

Select Profiles

1 Use the **Select Profile** submenu to select an operating profile for your mobile phone. Active Profile Icon indicates the currently-selected profile. Possible profile icons include Discreet ( ), Leisure ( ), Work ( ), Travel ( ), Handsfree ( ), and My Profile , , and .

2 When you use your Ericsson handsfree or mobile car kit, the handsfree profile ( ) is automatically activated (see "Auto Activate" below).

Note! You can also press and hold or to change your profile.

Ring Volume

The **Ring Volume** submenu allows you to set the level of the ring volume from Phone Silent to Increasing. The Increasing volume setting rises in steps from the lowest to the highest level as the phone continues to ring. You can make your selection by pressing or . Then press **YES** to confirm your selection.

Note! You can access Phone Silent by pressing **MENU #**.

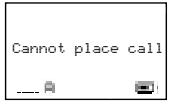
Alarm

Activate your alarm by pressing or until Activate is selected and press **YES**. Enter the alarm time using the keys on your keypad. Press any number key to toggle am/pm while am/pm is blinking (if applicable). You can press or to advance through the hours, minutes, and am/pm selection. Press **YES** to confirm the alarm time.

Customize

Problem Solving

My phone does not turn On.	Recharge or replace the battery.

My phone does not ring when a call is received.	Check for Ringer Off ( ) or Silent Mode ( ) icons on the Standby screen.
My battery does not charge to full capacity.	Your battery is fully charged when the power indicator shows the power icon ( ) continuously. If you still experience problems, condition your battery by fully discharging and charging it three times. Or, if your phone came with a desktop charger, use the conditioning function on the desktop charger to condition the battery.
My signal strength varies.	This is a common occurrence. Transmitters are set in geographic areas, and coverage is not 100% all of the time. Signal strength varies as you travel between cells.
	The signal is too weak to make a call. Try again when the signal strength is one bar or stronger.
	The battery power is low. When the phone shuts itself off, replace the battery with a fully charged one, or use an alternate power source, such as a travel charger.
	Your phone is out of range of service.

Browser Operation

When your phone is in Browser Operation, you are connected to the Internet via the Cellular Digital Packet Data (CDPD) Network. Using the built-in microbrowser, you can view specially-formatted web content on your Ericsson mobile phone. This content appears in English only. Surfing the web with your Ericsson mobile phone is quick and easy.

Note! You cannot receive voice calls while you are in Browser Operation. If you need to make an emergency call, press and hold **MENU** to return to Voice Operation. You can then dial 911 for assistance.

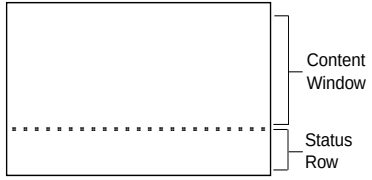
When You Are Connected

Your Ericsson mobile phone is already loaded with a microbrowser. The first time you launch your browser after power-up, you are connected to your Home Page. The content of your Home Page is designated by your service provider.

Note! You can return to your Home Page at any time by pressing **MENU 1** or by pressing and holding **BACK**.

Your Phone's Display in Browser Operation

The display in Browser Operation is separated into two areas, the content window and the status row. The content window is the area of the screen above the dotted line and the status row is the area below the dotted line.



Content Window

When you browse the web, you can view different web pages, each one called a card. There are three types of cards that you can see in your content window: Information, Choice, and Text Input. Each card operates a little bit differently. Once you familiarize yourself with the browser, it is easy to recognize which type of card is being displayed.

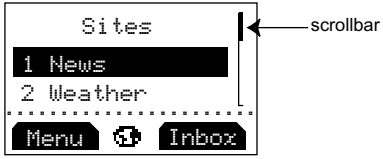
If a card contains more than one screen of text, there will be a scrollbar on the right side of the Content Window (example on the following page). While the scrollbar is displayed, you can scroll through each line with a single press of the ▲ or ▼ key or by pressing the up or down side volume keys. The scrollbar indicates how much viewable information you have seen.

Information Cards

Information cards are intended for simply viewing text and graphics.

Choice Cards

Choice cards offer you a list of choices.



Text Input Cards

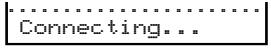
Text input cards enable you to enter text.

Status Row

There are four information types that are displayed in the status row, depending on the type of card displayed in the content window: 1) status messages, 2) soft keys, 3) time/date, and 4) icons.

Status Messages

Status messages are displayed when you are launching the browser and at various times during operation.



These status messages include the following:

- `Connecting...` means that your phone is trying to make a connection with your content provider.
- `Sending)))` means that information is being transmitted from your handheld browser to your content provider.
- `Receiving(((` means that you are receiving information from your content provider.

Soft Keys

You can use soft keys for action on the current card. They are displayed in reverse video on the status bar of your display.

To use the soft key functions, press the left (**YES**) or right (**NO**) key that is under the text label on the screen. The soft keys on your phone's screen override the key names.

The Globe Icon ( ) indicates that you have established a connection with the CDPD network. The alternates with when your battery is low, with when you receive a browser alert, or with when your alarm is set to "snooze."

Note! When using the soft keys, be sure to press and release the **YES** and **NO** keys. Pressing and holding **NO** turns the phone off. Pressing and holding **YES** sets a bookmark.

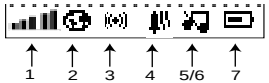
Time/Date

You can display the time and date at any time during your browser session by pressing and holding the # key.

Icons

When the Browser Mode icons are displayed, it means that your phone is conserving power (in "sleep mode"). Your phone is still continuously checking the network for updates and will "wake up" with an incoming alert or any key press.

Note! You can see the icon status row similar to the one below when you press and hold *. You can see the time and date when you press and hold #.



1 Signal Strength Icon ( ) shows the relative signal strength from the wireless system. More bars indicate a stronger signal.

2 The Globe Icon ( ) indicates that you have established a connection with the CDPD network. will replace when an SSL connection is established.

3 The Browser Alert Icon ( ) indicates that there is new content in your Inbox (for example, email, stock quotes).

4 Alarm Icon ( ) appears if the alarm is set.

5 Ringer Off Icon ( ) indicates that your phone will not make alert sound.

6 Silent Mode Icon ( ) indicates that your phone will not make keypad or alert sounds.

Note! To toggle Silent Mode on and off, press **MENU #**.

7 Battery Icon ( ) shows the relative strength of your battery. A full icon indicates a fully-charged battery. If the phone is connected to external power and the battery is charging, the display alternates between the battery icon and the charging icon ( ).

Navigation and Item Selection

There are different ways to navigate through the cards that appear in your content window, but there are several functions that operate the same for Information Cards and for Choice Cards:

MENU Key

- Press to access the **TOOLS** menu.
- Press and hold to switch to Voice Operation.

YES Key

- Press to select the left soft key option.
- Press and hold to add a favorite.

NO Key

- Press to select the right soft key.

- Press and hold to power your phone on or off.

BACK Key

- Press to return to the previous card.
- Press and hold to return to the Home Page.

▲ or ▼ Key

- Press ▲ to scroll up a line.
- Press ▼ to scroll down a line.
- Press and hold ▲ to scroll up line by line continuously.
- Press and hold ▼ to scroll down line by line continuously.

Upper or Lower Side Key

- Press the lower side key to scroll down one page.
- Press the upper side key to scroll up one page.
- Press and hold the lower side key to continuously page down.
- Press and hold upper side key to continuously page up.

Choice Cards

Choice Cards contain a list of items. The selected item is highlighted in reverse video. Select an item by doing the following:

1 Highlight the item you want to choose by pressing ▲ or ▼ or by pressing the digit key associated with the item number.

2 Press the right or left soft key corresponding to the action that you want to take.

Information Cards

Press the right or left soft key corresponding to the action that you want to take.

Text Input Cards

To navigate through your display properly when entering text:

- Press **BACK** to delete the character to the left of the cursor.
- Press and hold **BACK** to erase all of the text that you have entered.
- If the cursor is at the first text entry position, press **BACK** to return to the previous card.
- Press ▲ or ▼ to move the cursor left or right.
- Press and hold ▲ or ▼ to repeatedly move the cursor left or right.

Note! Press and hold # to display the time and date. Press and hold * in text entry mode to display the full set of status icons.

There are a few things you need to know about text entry on your Ericsson mobile phone.

Your Cursor

- A vertical flashing cursor indicates character insert mode.
- A reverse video cursor indicates character replacement mode. Text that you enter replaces the text that is highlighted.

Entering Text

You can enter characters in four different modes. The active format is displayed in the right soft key position. Change the format in which characters are entered by pressing the right soft key.

1 mode allows you to enter alphabetic text.

Press the appropriate key, 0-9, or # repeatedly until the desired letter, character, or digit appears in the display. For example, to

enter an a, press the numeric key 2 once. To enter a b, press the numeric key 2 twice.

Press this...	For...
1	(space)
2	a b c 2
3	d e f 3
4	g h i 4
5	j k l 5
6	m n o 6
7	p q r s 7
8	t u v 8
9	w x y z 9
0	0
#	, ? ! . ; : @ \ ‘ ’ " + - * / = ~ # $ % ^ & _ | < > { } [ ] ( )
*****	Press to capitalize next character

2 SYM mode allows you to select symbols and punctuation from a list. You can switch to symbol entry by pressing the right soft key until SYM is in the right soft key position. There are four screens of symbols. Press the left soft key to switch between each screen.

SYM 1 . ? ! , ; : ‘ ’ "
SYM 2 . @ \ / \| _ ~ $ ^
SYM 3 + - * / < > = % #
SYM 4 { } [ ] ( ) < > &

Press the digit key corresponding to the symbol that you want to enter.

Your phone automatically switches back to the previously-used method of text entry after you enter one symbol.

3 0...9 mode allows you to enter numbers by pressing the digit key corresponding to the number that you want to enter.

4 T9 mode allows you to use Tegic T9 text input. Tegic T9 text entry software allows you to quickly and easily enter words or entire sentences with just one key press per letter. Tegic T9 text entry software uses the phone's internal dictionary to quickly scan possible variations to determine the correct word.

If you enter all your letters and the word that you want does not appear, press **0** to view other matches in your phone's dictionary. Keep pressing **0** until your word appears.

For example, to enter the word "ball", press **2**, **2**, **5**, **5**. After the first 2, your screen displays "c". After the second 2, your screen displays "ca". After the first 5, your screen displays "cal". After the second 5, your screen displays "call". Press the **0** key until the word "ball" is displayed.

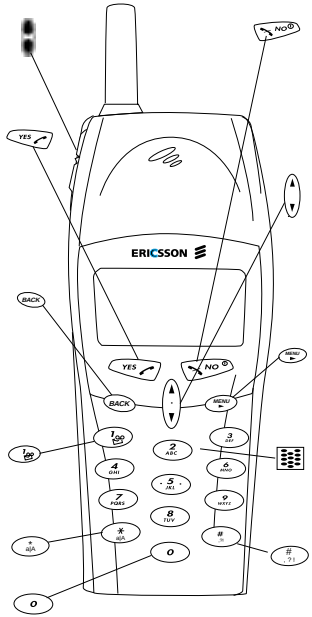
Note! You will know that there is no word match in the T9 dictionary when your key presses are no longer recognized by T9 text entry mode. When this happens, backspace, switch to a...z mode, and continue text entry.

If your word does not appear, you can add it into your phone's dictionary by doing the following:

- Type the text that you want to enter into your phone's dictionary by using any of the non-T9 text entry modes.
- With the cursor to the right of the last character (without pressing a space) reselect T9 mode by pressing the right soft key until T9 appears in the right soft key position.
- Press 0 to enter a space. Your word is added to your phone's dictionary when your phone is properly powered down.

Note! It may be helpful not to look at the screen until you are finished entering the characters of the word you are trying to type as a new word match may occur with each new character entered.

Browser Operation Key Functions



	• Press to scroll one screen/page at a time. • Press and hold to autorepeat.
	• Press to select the soft key in the lower left of the screen. • Press and hold to add to the favorites list.
	• Press and hold to turn your phone On or Off. • Press to select the soft key in the lower right of the screen.
	• When entering text, press to erase 1 character to the left. • When entering text, press and hold to erase the entire entry. • When not entering text, press to go back one card at a time. • When not entering text, press and hold to return to the Home Page.
	• When entering text, press to move the cursor left or right. • Press and hold to autorepeat. • When entering text, press ▼ to add a space at the end of a word. • When entering text, press ▲ to scroll non-destructively through the text entered.
	• Press to go to the **TOOLS** menu. • Press and hold to switch to Voice Operation.
	• When entering text, press to add a space in 0 . . . 9 mode.
	• Press and hold to jump to a specific favorite card.

	• When entering text, press to toggle capitalization. • Press and hold to show icons such as battery and signal strength.
	• Press to cycle through word choices using T9 text entry.
	• Press to enter symbol characters. • Press and hold to display the date and time on the screen.

Tools Menu

Press **MENU** to access the **TOOLS** menu. The **TOOLS** menu contains the following submenus.

Home Page

Select Home Page to go directly to your Home Page.

Voice Mode

Select Voice Mode to switch to Voice Operation.

Add Favorite

Select Add Favorite to mark your favorite cards to return to them easily. You can return to them by simply browsing your list of favorites and selecting the one you want to visit.

To set a favorite, go to the page that you want to add and press **MENU 3.** If the page can be bookmarked, it appears in the favorites list in your Home Page. To return to the favorite, select it from the favorites list.

Note! To quickly add a favorite, press and hold **YES** when you are on the page that you want to add.

Note! Some pages cannot be added to your favorites list.

Display

Selecting **Display** allows you to set the size of the display font by changing the number of lines of text that can be seen at one time in the content window. The two options for Display are Normal 7pt. and Large 8pt. Normal 7pt. is the default setting.

Show URL

Selecting **Show URL** allows you to display a card's URL (Internet address).

Page Help

Selecting **Page Help** allows you to display a card's help (if available).

Reset Cache

Selecting **Reset Cache** clears previously-visited cards and reloads your Home Page.

Version Info

Selecting Version Info allows you to view microbrowser version information.

Local Settings

Selecting **Local Settings** allows you to change browser-related phone options:

- Alert Sound – You can specify if you want sound associated with your browser alert mechanism. The two options for Alert Sound are Off and On.
- Power Up Mode – You can specify whether your phone powers up in Browser or Voice operation.
- Security – Customer Service and Support uses this for troubleshooting and debugging. You should not alter your security options unless you are instructed to do so by your content provider.
- Channel Scan – You can set your power saving options to conserve battery power. The three options for Channel Scan are Normal, Persistent, and Periodic.
- Network Settings – You can view and modify your CDPD account information. You should not alter your network settings unless you are instructed to do so by your content provider.

Note! Contact your service provider for your Network Settings password.

Keypad Help

Select Keypad Help to view help related to your phone's keypad mapping.

Configuring Your Browser

Your browser can be reconfigured for a new/second subscription. Check with your service provider before making any changes to your Browser Operation settings.

Entering the Network Settings Submenu

To enter the Network Settings submenu, do the following while in Browser Operation:

1 Press **MENU 9** to select the LOCAL SETTINGS menu.

2 Press **5** to select Network Settings.

3 Press **2** to select Modify or press **1** to View.

4 Enter the password from your service provider (not needed for viewing).

5 Press **YES** (not needed for viewing).

Note! Modifying these settings without the direction and guidance of your service provider may result in less than optimal performance from your browser or inability to connect to your Home Page.

Configuring the NEI

The NEI is an IP address that identifies the phone to the CDPD network. This number is prescribed by the CDPD service provider. Each phone has its own NEI. The phone can store two independent NEIs, allowing the user to easily switch between two separate CDPD service accounts. To configure a second NEI, do the following:

1 Enter the Network Settings submenu as described above.

2 Press **1** to select the Device Addresses.

3 Press **4** to select NEI2 Address.

4 Press the left soft key to edit the entry.

5 Press * until the cursor is at the first position. Enter the NEI numbers using leading zeroes. Press the left soft key to apply the change.

6 After entering the IP address, press the left soft key to apply the change.

Note! The “dots” are automatically added. Leading zeroes are necessary where appropriate.

Using Your New Subscription

1 Enter the Network Settings submenu as described above.

2 Press **1** to select from the Device Addresses.

3 Press **2** to select Active NEI.

4 Press the left soft key to edit the entry.

5 Press **2** to set NEI2 as the active NEI.

Configuring the Browser Gateway

The Browser Gateway is the IP address of the gateway server to which your phone will connect. The server stores web content for your phone to access, including your Home Page. Your phone can store two independent Browser Gateways, allowing you to easily switch between gateways. Reading content from a new gateway requires a new subscription. To add a second gateway, do the following:

1 Enter the Network Settings submenu as described above.

2 Press **4** to select Gateway Settings.

3 To configure the second gateway, press 4 to select GW2 Primary IP.

4 Press the left soft key to edit the entry.

5 Press * until the cursor is at the first position. Enter or modify the IP address using leading zeroes.

Note! The “dots” are automatically added. Leading zeroes are necessary where appropriate.

6 After entering the IP address, press the left soft key to apply the change.

7 If a secondary gateway exists, press **5** to edit GW2 Secondary IP.

8 Press ⁂ until the cursor is at the first position. Enter or modify the IP address using leading zeroes.

Note! The “dots” are automatically added. Leading zeroes are necessary where appropriate.

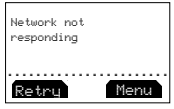
9 After entering the IP address, press the left soft key to apply the change.

10 Press **1** to edit **Active Gateway**.

11 Press **2** to apply Gateway 2. Your phone will then attempt to connect to the gateway using your active NEI as your identity.

Note! You must have a subscription to the gateway for the active NEI.

Problem Solving

	Information is not set up in your phone. Call Technical Support to configure your network settings and/or load your NEI into the CDPD network.
	Your NEI is not active in your network or you are out of signal strength. Check your roaming map or call Technical Support to load your NEI into the CDPD network.
	Your NEI is not set up in the gateway or the wrong gateway is specified in your phone. Do one of the following: • Confirm the correct gateway address is entered and active • Call to load your NEI in the gateway.

Wireless Modem Operation

When your phone is in Wireless Modem Operation, it is behaving like a wireless modem and is providing a connection to the Internet similar to an Internet Service Provider (ISP).

Other Ericsson products can be used in conjunction with your Ericsson Mobile Phone in Wireless Modem Operation including the Ericsson Virtual Office (EVO). Check with your Office/System Administrator and/or your service provider to learn more about remote access enhancements.

Note! You cannot receive voice calls while you are in Wireless Modem Operation. If you need to make an emergency call, end Wireless Modem Operation by removing the cable from your phone. Then switch to Voice Operation (if necessary). You can then dial 911 for assistance.

Before You Start

Before setting up your phone for Wireless Modem Operation, make sure that you have the required hardware and software components.

- Ericsson Connectivity Kit
- A functional serial port
- An operating system that supports data access software, such as Microsoft Windows 95® or Microsoft Windows 98®.

Note! In order to use your phone in Wireless Modem Operation, you may have to first purchase an Ericsson Connectivity kit. This kit includes an Ericsson serial interface cable to connect your Ericsson mobile phone to your computer. It also contains a CD with the necessary installation and configuration information.

Computer Setup in Wireless Modem Operation

Your computer must be properly set up in order to successfully make Wireless Modem calls from your computer through your phone (see “Initial Setup” on page 45).

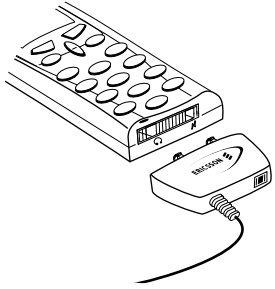
When your phone and computer are properly set up, you can run Internet applications on your laptop (Internet browsers and email applications) over the connection provided by your Ericsson mobile phone (see “Connecting to the Internet” on page 46).

Initial Setup

Successful first-time setup of your phone and computer for Wireless Modem Operation involves the following steps:

1 Connect your phone to your computer using an Ericsson serial interface cable. The cable has a plug on one end that matches the charging/handsfree connector on the bottom of your Ericsson mobile phone. The other end of the cable has a 9-pin connector that matches the standard 9-pin serial interface port connector.

Connect the charging/handsfree end of the cable to your Ericsson mobile phone and the 9-pin connector end of the cable to the serial port on your computer.



Note! If you are trying to connect to a 25-pin serial interface port on your computer, you will need an adapter. You can purchase a 25-pin serial interface port adapter at most computer supply stores.

2 Insert your installation CD into your computer and follow the instructions on your computer screen. The CD will install all of the necessary software components on your computer including the Ericsson R280 Dialup Connection icon. Double clicking the icon will allow you to connect to the Internet. (see “Connecting to the Internet”).

Note! The installation wizard included on the CD should start automatically. If the setup screen does not appear after you insert the CD, do the following:

- Make sure the CD is properly inserted into your computer.
- Click on Start from the taskbar on your computer.
- Click on Run.
- Type X:\ setup (where X is your CD-ROM drive).
- Click OK to start the installation.

Connecting to the Internet

Do the following to connect to the Internet:

1 Ensure that your Ericsson serial interface cable is connected to your phone and to your computer, as described earlier in this chapter.

2 Ensure that the install program from the CD has been properly installed. If so, you should see an Ericsson R280 Dialup icon on your desktop.

3 Ensure that your computer has been rebooted at least once since the dial-up connection was created by the installation program.

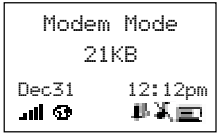
4 Double-click on the Ericsson R280 Dialup icon on your desktop.

5 When prompted, select **Connect**.

6 Once connected, you can use Internet applications on your computer.

Your Display in Wireless Modem Operation

When your phone is in Wireless Modem Operation, your display will look similar to this:



When you see the Globe Icon ( ) on your phone's display, you know that you are connected to the Internet.

You will also see a kilobyte number under Modem Mode in your display. This number indicates the number of bytes transferred through your mobile telephone during a Wireless Modem session. This number is reset to zero after the connection is disconnected.

Wireless Modem Operation Key Functions

The keys on your phone's keypad do not have any functions when you are in Wireless Modem Operation. Use the keys on your computer's keypad.

Disconnecting

Open the Ericsson Dialup Dialog Box and click on Disconnect to end your Wireless Modem session. When your wireless session is stopped or when your serial interface cable is disconnected from your phone, your phone will exit Wireless Modem Operation and return to the previously selected operation.

Problem Solving

I do not see the Globe Icon.	If you do not see the Globe Icon, you are not in an area with strong enough service to establish a Wireless Modem connection.
I cannot connect to the modem.	If you cannot connect to the modem in Wireless Modem Operation, make sure that your serial interface cable is connected to both your phone and your computer. If the problem still exists, consult your Ericsson CD or your computer's user's guide.
I am having problems downloading information.	If you are having problems downloading information from the Internet during a wireless modem session, make sure that your phone is still in Wireless Modem Operation by checking your phone's display. If you travel to a region with a weak signal, the connection can be dropped. If this happens, disconnect your phone or wait for the Globe Icon to reappear.

If you need additional information or assistance, or would like to purchase Original Ericsson Accessories: in North America, call 1-800-ERICSSON (374-2776). In Latin America, call 1-305-755-6789. All other countries, call 1-919-472-7908.

For frequently asked questions about Wireless Modem Operation, visit http://www.ericsson.com/phones.

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