

Tri-Mode CDMA

C900

User's Manual

BenQ

Inspired by Acer

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FCC RF EXPOSURE INFORMATION

Warning! Read this information before using your phone

In August 1886 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.6 inches (1.5cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.6 inches (1.5cm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. Third-party belt-clips, holsters and similar accessories containing metallic components shall not be used. Body-worn accessories that cannot maintain 0.6 inch (1.5cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

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 Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992)
NCRP Report 86 (1986)
ICIMIRP (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). Nevertheless, we recommend that you use a handsfree kit with your phone (such as an earpiece or headset) to avoid potential exposure to RF energy.

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

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.
- 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 hands-free operation, if available;
- Pull off the road and park before making or answering a call if driving conditions so require.

Electronic devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the 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 they are 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 require you to do so.

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

Aircraft

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.

Blasting areas

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.

Potentially explosive atmospheres

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 injury could result.

FDA Consumer Update on Mobile Phones

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 radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency 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:

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 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, neuroepitheliomatous 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

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 and Internet 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:

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

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 does 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 does 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>

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.

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4,901,307	5,490,165	5,056,109	5,504,773	5,101,501
5,506,865	5,109,390	5,511,073	5,228,054	5,535,239
5,267,261	5,544,196	5,267,262	5,568,483	5,337,338
5,600,754	5,414,796	5,657,420	5,416,797	5,659,569
5,710,784	5,778,38			

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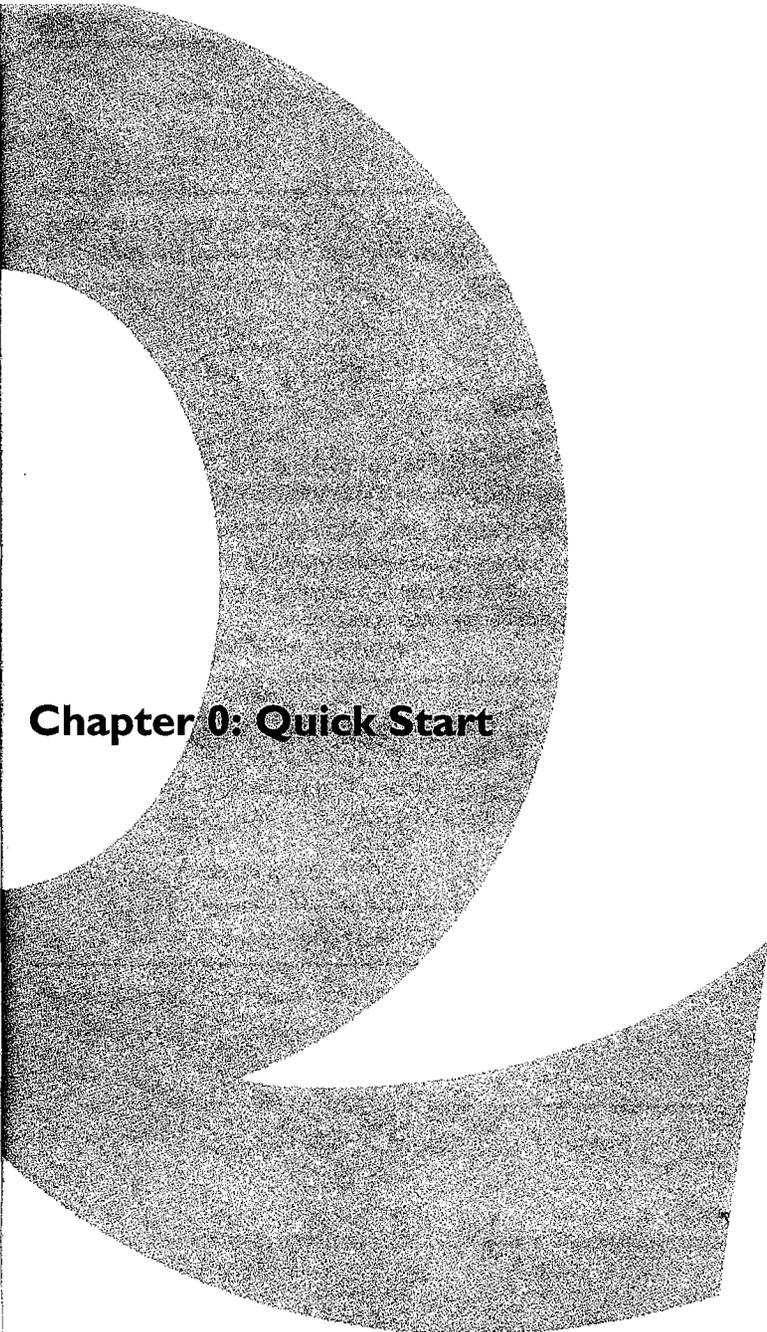
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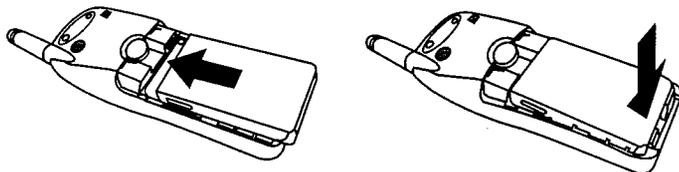


Chapter 0: Quick Start

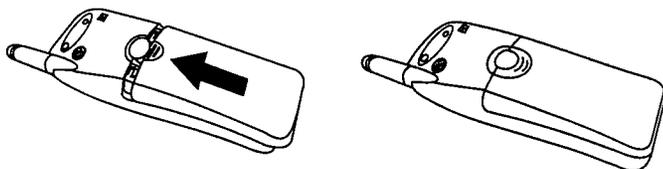
Please follow the simple steps below to make your first call:

Install the battery

Place the bottom end of the battery on the phone, then press down the top side of the battery. You will hear a click when the battery is secured.

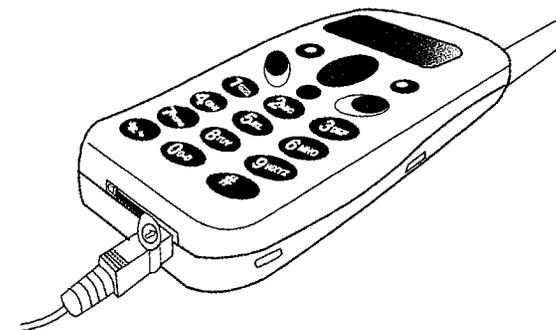
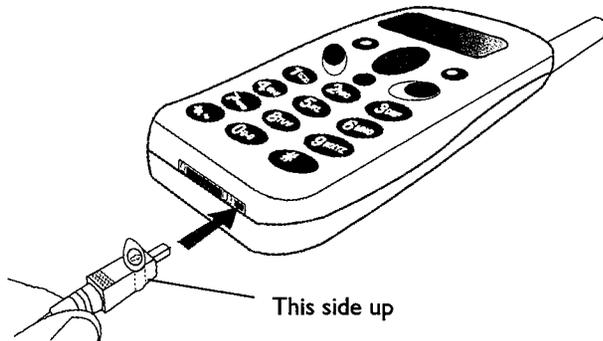


After installing the battery, please place the battery cap on the back of the phone. Then hood on the cap as following graphics show. You will hear a click when the battery cap is secured.



Charge the battery

Insert the battery charger connector into the battery charging socket.



It takes 24 hours for the charger to fully charge a new battery. Recharging takes about 160 minutes each time.

When charging, the battery strength bars  will flash until the battery is fully charged.



Turn the phone on

After the battery is fully charged, press and hold  key to turn on the phone power. The phone beeps and a welcome animation will be displayed on the screen. After the phone is turned on, it will start searching the network to use.



Make a call

Enter the phone number with the keys on the keypad. When finished, press  key.



End a call

Press  key to end the call.



Please set up the time for your phone first to ensure accuracy of time-related data (such as Calendar and Scheduler). Please see "Set time" on page 48.



Chapter 1: Introduction to Your Phone

BenQ C900 Mobile Phone

Your Phone

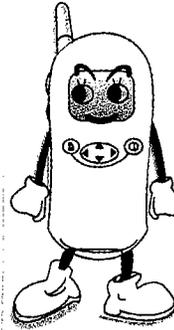
Thank you for choosing BenQ mobile phone!

From now on, with your BenQ mobile phone, you will experience total mobility in your life. You will be able to communicate with more freedom and convenience.

We know that you demand more than what a mobile phone can offer for mobility. The light-weight, slim body of your phone symbolizes your taste for elegance and compactness. The high-resolution LCD display frees you from the nightmare of groping between pixels. You see clearly each and every character displayed on the screen.

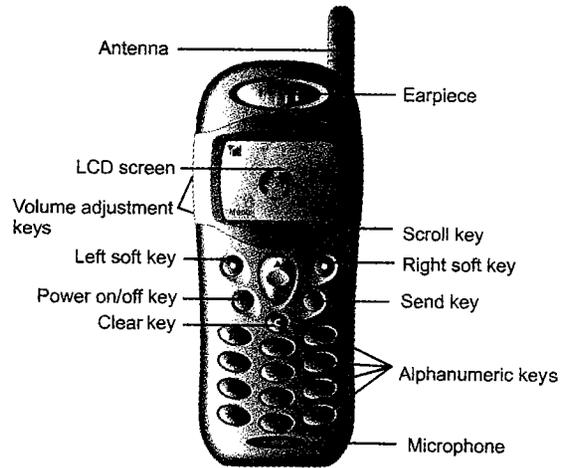
There are more features to discover. Now please follow us while we introduce you to your new and versatile partner.

* The data service kit is required for data and fax service that can be purchased separately.

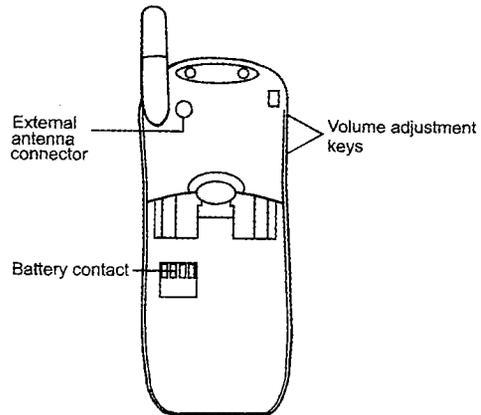


Appearance

Front View

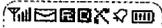


Rear View (With battery removed)



Bottom View





LCD Screen

There are several icons that appear on the LCD screen to indicate the status of your phone. Please see the table below for the meaning of each icon:

Icon		Meaning
	Signal strength	Shows current signal strength. The more bars displayed, the better the signal strength.
	Message	Steady: Indicates that there are new and unread text or voice messages. Blinking: Indicates that there are new unread urgent messages.
	Roaming	Steady: Indicates that this phone is out of the reach of its primary service area, but is in a friendly roaming area. Blinking: Indicates that the phone is currently in an unfriendly roaming area
	Digital mode	This icon appears when the phone is in digital mode.
	Call status	When you are in a call with your phone or there is an incoming call, this icon will appear.
	No service	This icon indicates that the phone cannot receive a signal from the network operator.
	Battery level	The battery level is shown by the number of bars in the battery icon. The more bars displayed, the higher the battery strength. This icon will flash when the battery is extremely low. When you charge the battery, the bars will animate until the battery is fully charged.

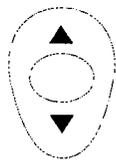
		Displays the ring type when your phone receives an incoming call:
	Ring type	: the phone generates a ring tone when there is an incoming call.
		: indicates that the phone is in silent mode.
		: the phone vibrates when there is an incoming call.
		:the phone rings and vibrates when there is an incoming call.

Keypad

There are two kinds of keys on the keypad: **Function Keys** and **Alphanumeric Keys**. In each section below, "long press" a key means "press and hold a key for about 2 seconds", while "press" a key means "press and release a key immediately".

In standby mode, when you press a key on the keypad, the backlight will be turned on automatically. If you want to turn off the backlight, please refer to "Backlight" on page 44 for details.

Function Keys

Press...	To...
 End/Power key	<ul style="list-style-type: none"> • End a call. • Exit the menu and return to standby mode. • Turn the phone power on/off.
 Send/OK key	<ul style="list-style-type: none"> • Make an outgoing call. • Answer an incoming call. • Enter outgoing call log.
 Scroll Key	 <ul style="list-style-type: none"> • Move cursor left. • Move to the previous item in Main Menu. • Enter Incoming call log.
	 <ul style="list-style-type: none"> • Move cursor right. • Move to the next item in Main Menu. • Enter Phone Book.
 Left soft key	Execute the function that is shown at the lower left part of the screen.
	Execute the function that is shown at the lower right part of the screen.
 Clear key	<ul style="list-style-type: none"> • Clear text. • Delete.

Alphanumeric Keys

There are 12 alphanumeric keys on the keypad. You can use these keys to enter numbers and letters. To enter a number, simply press the button with that number. To enter characters, press the key several times until the desired letter appears. To switch between upper and lower cases, long press the key.

Please see the table below for the keys and their corresponding letters:

Key	Letters
 1	1 @ , . ' ; : ? _
 2 _{ABC}	A B C 2 Å Ä å ä à ç æ ß
 3 _{DEF}	D E F 3 è é É £ Æ
 4 _{GHI}	G H I 4 ì ÿ
 5 _{JKL}	J K L 5 Δ Φ Γ Λ Ω
 6 _{MNO}	M N O 6 Ñ ñ ò Ö ö Ø ø
 7 _{PQRS}	P Q R S 7 ¥ §
 8 _{TUV}	T U V 8 ü Ü ù
 9 _{WXYZ}	W X Y Z 9 Π Ψ Σ Θ Ξ
 0 _☒	(Space) 0 () < > { } [] << >>
 * _{+@}	+ - * / = # \ ! % & " \$ ' ` ~
 # _☒	#

Key Operations

In standby mode:

Key	Press	Long Press
Right softkey	Phonebook & Log	None
Left softkey	Menu	None
Send	Outgoing call logs	Redial Last Number
End	None	Power Off
Up	Incoming call logs	Missed call logs
Down	List phonebook records	Find phonebook record by Name
Clear	None	Mute and Vibrate/Ring switch
*	*	Wap
#	#	Lock keypad
1 ~ 9	1 ~ 9	Speed dialing
0	0	Call to voice mail

In Main Menu:

Key	Press	Long Press
Right softkey	Right softkey	None
Left softkey	Left softkey	None
Send	None	None
End	Back to previous page	Back to previous page then power off
Up	Up	None
Down	Down	None
Clear	None (clear a character when in entry mode)	None
*	None	None
#	None	None
1 ~ 9	Shortcut to item 1~9	None
0	None	None

Inputting data

Your phone provides two input methods for you to input various data into your phone using the keys on the keypad. You can select the desired one in the settings menu.

Multi-tap Text input method

When you have entered the first letter, the cursor will advance to the position of the next letter after about two seconds. You can also type to enter the next letter directly.

To clear a letter or number, press **C** key. The cursor will move backward and the letter will be deleted. To delete all letters or numbers, long press **C** key.

For example, if you want to enter "Mary":

- Press **6^{ms}** key once until "M" displays on the screen.
- Long press **2^{ms}** key, then press **2^{ms}** key several times until "a" appears on the screen.
- Press **7^{ms}** key three times until "r" appears on the screen.
- Press **9^{ms}** key three times until "y" appears on the screen.
- Finally, press the **☎** soft key to confirm.

Letter-wise input method

To input using the Letter-wise input method:

- Press the key with the intended letter. The letter will appear on the screen.
- If the intended letter does not appear, press **#_g** key until it does, but you almost always get the intended letter.
- To erase a letter, press **C** key. To erase all the letters, long press **C** key.

Chapter 2: Using Your Phone

BenQ C900 Mobile Phone Basic Operations

Turning on the phone

When the phone power is off, you can long press  key to turn it on. The phone beeps and a welcome animation will appear on the screen. After the phone is turned on, it will start searching for the network to use.

When network service is acquired, the banner will be displayed on the screen. Under this "standby" mode, you can:

- Make a call.
- Press the "Menu" soft key to access **Main Menu**. (See "Chapter 3: Menu Options" on page 23)
- Press the "Book & Log" soft key to enter the **Phone Book** or **Call Logs**. (See "Phone Book" on page 26 and "Call logs" on page 25)
- Long press the  key to listen to the voice mail message.

• *If you have activated the Lock Phone/Power On function, the phone will be locked and you will need to enter the lock code to unlock it.*



Turning off the phone

When the phone power is on, you can long press  key to turn it off.

Making a call

In standby mode, you can make a call in one of the following ways:

- Key in the phone number, then press  key.
- Press  key to browse the last dialed numbers list, then press  key again to dial.
- Long press  key to redial the last dialed number.
- Find a Phone Book record by name and press  key.
- Find a Phone Book record by location and press  key.
- Long press  key to use speed dial.

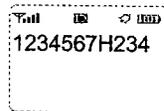
- Enter the location (number) of a Phone Book record, then press and key.
- From "Outgoing Call" log, choose a number to dial and press key.
- From "Incoming Call" log, choose a number to dial and press key.
- From "Missed Call" log, choose a number to dial and press key.

Hard pause & time pause

When you enter a phone number, you can long press key to insert a hard pause, or key to insert a time pause. H (hard pause) or T (time pause) will appear on the screen.

If a hard pause is inserted, the phone will prompt you to send the numbers behind the hard pause when a call is connected.

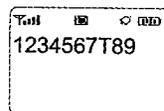
For example, if you enter:



After the call "1234567" is connected, the screen will prompt you to send the number "234". You can press key to send.

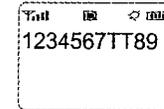
If a time pause is inserted, the phone will send the numbers after the time pause after 3 seconds. This is useful when you want to call an extension number.

For example, if you want to call 1234567, extension number 89:



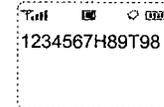
3 seconds after the call "1234567" is connected, the phone will send the number "89" automatically. You can lengthen the pause duration by inserting more time pauses.

For example,



6 seconds after the call "1234567" is connected, the phone will send the number "89" automatically.

You can also use time pauses in combination with hard pauses:



Hard pause does not work if it is inserted right after a time pause without numbers in between (e.g, 1234567TH89).

Note

Redialing a call

If the attempt to make a call has failed, according to the setting in **Retry Mode**, you can redial the last dialed number manually or let the phone redial the number automatically.

Answering a call

The phone rings or vibrates when a call is received. If the caller's number can be found in the Phone Book, the caller's name will appear on the screen. The call time will also be shown.

You can press key to answer that call. Depending on the setting in **Answer Mode** (See "Answer mode" on page 49), you can also choose to answer a call by pressing any key (except key) on the keypad or turn on the auto answer function when used with a hands-free kit.

Ending a call

When you are on a call, you can press key to end the call. The call timer information will flash on the screen for about three seconds and the phone will then return to standby mode.

If the total call time exceeds the value you set in the **Usage Limit** function (see "Usage limit" on page 47), a warning tone will be generated to remind you of the total call time.

In call options

During a phone call, you can choose to use the following features:

- Press the alphanumeric keys to send DTMF tone (for example, when you are asked to enter ID number, account number or other data).
- Press  key to end the call.
- Receive another call from a third calling party by pressing the key.
- Press the volume adjustment keys to adjust the ear piece volume.
- Press the "Option" soft key to enter the **In Call Option** menu. In the menu, you can highlight the desired item by pressing  or  on the scroll key and then press "Select" soft key to select.

Mute (Unmute): Mute or unmute current call.

3-Way: activate 3-way call (see "Three way call" on page 19).

Calendar: Access Calendar (see "Calendar" on page 40).

Scheduler: Access Scheduler (see "Scheduler" on page 39).

Calculator: Access Calculator (see "Calculator" on page 41).

Short Msg: Enter Short Message menu (see "Short message" on page 29).

Scratch Pad: Use the built-in Scratch Pad to jot down phone numbers. You can save them as described in "Scratch pad" on page 41.

Call waiting

If another call is received during a call, the message "Waiting" and name (or number) of the third calling party will appear on the screen.

- To put the current call on hold and answer the incoming call, press  key. When the incoming call is ended, you will return to the previous call automatically.
- To reject the third incoming call, press the "Cancel" soft key.

Three way call

While you are speaking, you can initiate another call to a third calling party.

- Press the "Option" soft key and select "3-Way" in the menu and make a call to the third party by entering the number and press  key. Or during the call, enter the number of the third calling party and press  key.
- When the third party is connected, press  key again and all the three calling party will be connected.
- To switch the calling party, press  key. To disconnect all calls, press  key.

Key guard

In standby mode, you can use the key guard function to keep from accidental key operation.

To activate key guard, long press  key. To cancel, press "unlock" soft key, then press  key.

Speed dial

Each phone number stored in Phone Book is assigned a location number. It can be used as a shortcut to dial the phone number.

In the standby mode, if the speed dial function is turned on (See "Speed dial" on page 48), you can long press a alphanumeric key (key 1 ~ 9) to dial the number located in #1 ~ #9 in the Phone Book.

OTASP call

The OTASP (Over-The-Air Service Provisioning) from your network service provider allows you to activate your network service simply by making a phone call.

For details, please contact your network service provider.

Call logs

You can enter the **Call Logs** menu by pressing "Book & Log" soft key in standby mode.

There are 5 options in the Call Logs menu. You can highlight the desired item by pressing ▲ or ▼ on the scroll key and then press  key to select.

- **Missed Log:** Display the record of missed calls. You can press ▲ or ▼ on the scroll key to scroll the records, then press  key to dial or press the "Save" soft key to add to the Phone Book.
- **Incoming Log:** Display the record of incoming calls. You can press ▲ or ▼ on the scroll key to scroll the records, then press  key to dial or press the "Save" soft key to add to the Phone Book.
- **Outgoing Log:** Display the record of outgoing calls. You can press ▲ or ▼ on the scroll key to scroll the records, then press  key to dial or press the "Save" soft key to add to the Phone Book.
- **Call Timers:** You can press  key to display the duration of the Last Call, All Calls, Home Calls and Roam Calls, and Reset Timers.
- **Erase Logs:** You can press  key and then ▲ or ▼ on the scroll key to select the call logs to be erased (Outgoing, Incoming or Missed) or all call logs (All). Press "OK" soft key to erase.

Reading messages

Text messages

When you have a new text message, the phone will generate an alert sound and the backlight will illuminate (according to the setting in "Select a ring style" on page 43. "You have a new message!" and 

icon will also appear on the screen. A blinking  icon means that you have received an urgent text message.

If you have more than 1 new message, you can press ▲ or ▼ on the scroll key to scroll through the messages.

Press the "View" soft key. The sender and time of the message will appear on the screen. Press the "View" soft key again to view the content of the message.

If you don't want to view the message immediately, you can press the "Quit" soft key to store the message to Inbox. (See "To view received short messages:" on page 29)

Voice mail notifications

If you have a new voice mail, you will receive a message containing the number of voice mail messages.

Press the "Listen" soft key and you will be connected to your voice mail box.

Call forward

The Call Forward function allows you to forward incoming calls to a designated number when the phone is busy, out of reach of network service..., etc. Please contact your network service provider for availability.

Adjust ear piece volume

During a phone call, you can press the volume adjustment keys on the side of the phone to adjust the ear piece volume. 7 volume levels are available.

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Knowing What Your Phone Says

Your phone lets you know its working status by issuing sounds or displaying text prompts on the screen.

Low battery warning

If the battery power is getting low, the battery icon on the screen will start to flash. If the phone has run out of the battery completely, the battery empty message will appear on the screen and the phone will be turned off automatically.

At this time, use the battery charger to charge the battery.

Battery charging

When the battery is being charged with phone power off, the battery charging animation will appear on the screen. If the phone power is on, the bars in the battery icon will animate. When the battery is fully charged, a "Charging Complete" notification will appear on the screen.

Missed call alert

When you have a missed call, missed call information (including the number of call missed) will appear on the screen.

Roaming alert

If you are roaming under other network service areas, the roam icon  will appear on the screen, telling you that you are in a roam service area or a secondary roam service area if flashing.

Power saving

If the phone can not acquire a network for a long time, the phone will enter power saving mode automatically. You can press any key to wake up the phone.

Chapter 3: Menu Options

In standby mode, you can press the "Menu" soft key to enter the Main Menu. You can press ▲ or ▼ on the scroll key to scroll through the menu items and press  key or "Select" soft key to enter. The Main Menu includes many advanced options and you can get the most from your phone by using these functions.

The Book & Log menu is where you can store and manage phone numbers. It can also be accessed by pressing "Book & Log" soft key in standby mode.

You can use ▲ or ▼ on the scroll key to highlight an item and press "Select" soft key to enter.

Call logs

You can also enter the **Call Logs** menu by pressing "Book & Log" soft key in standby mode.

There are 5 options in the Call Logs menu. You can highlight the desired item by pressing ▲ or ▼ on the scroll key and then press the "Select" soft key.

- **Missed Calls:** Display the record of missed calls. You can press ▲ or ▼ on the scroll key to scroll the records, then press  key to dial or press the "Option" soft key to "Place Call," "Save" or "Erase."
- **Incoming:** Display the record of incoming calls. You can press ▲ or ▼ on the scroll key to scroll the records, then press  key to dial or press the "Option" soft key to "Place Call," "Save" or "Erase."
- **Outgoing:** Display the record of outgoing calls. You can press ▲ or ▼ on the scroll key to scroll the records, then press  key to dial or press the "Option" soft key to "Place Call," "Save" or "Erase."
- **Call Timers:** Press "Select" key to display the duration of the Last Call, Home Calls, Roam Calls, All Calls, and Reset Timers.
- **Erase Logs:** Press the "Select" soft key and then ▲ or ▼ on the scroll key to select the call logs to be erased (Missed, Incoming, Outgoing or Erase All).

Phone Book

Add a Phone Book record

Select "Add" and press "Select" soft key. Follow the steps below to add a new Phone Book record:

Step 1: You will be prompted to enter the phone number. Enter the phone number and press "OK" soft key to continue.

Step 2: Enter the name of that number (maximum 12 characters) and press "OK" soft key (If the name you entered already exists, you will be asked if you want to add a new record).

Step 3: The following options will appear. You can use the scroll key to highlight an item and press "Select" soft key to select:

Finished: Finish adding this new record.

Location: Specify a location for this record in Phone Book. You can (1) press "OK" soft key to use the pre-assigned location directly, or (2) enter a new location directly and press "OK" soft key.

Type: Assign a label for this record. The labels include: "No Label", "Home", "Work", "Mobile", "Pager" and "Fax".

Ring style: Specify a ring style for this record. When a call from this number is received by your phone, the specified ring type will be played. Press "Select" soft key to set the ring style.

Private: Set this record as private. If it is set, you need to enter the security code to view its details.

Email: Enter the e-mail address.

There are other alternatives to add a record to Phone Book.

Option 1: In standby mode, press "Book & Log" soft key to enter Phone Book, then select "Add". Follow the instructions in the "Add a Phone Book record" section above.

Option 2: In standby mode, enter the phone number, then press "Options" soft key and choose "Save". Follow Step 2 and 3 in the "Add a Phone Book record" section above.

Option 3: In standby mode, press "Book & Log" soft key to enter Call Logs menu, and select "Missed", "Incoming" or "Outgoing".

In either of these menus, press "Select" soft key to browse the call logs. You can scroll the call logs by pressing ▲ or ▼ on the scroll key. When you find the number you want to add to the Phone Book in a call log, press "Option" soft key and select "Save".

Follow Step 2 and 3 in the "Add a Phone Book record" section above.

Find a Phone Book record by name

You can find a Phone Book record by name.

Enter Phone Book, then scroll to "Find By Name" and press "Select" soft key. You will be prompted to enter the name of the record you are looking for. Enter the name of that record and press "Search" soft key. The record will appear on the screen.

You can enter the full name of that record or enter just the first few letters. The names starting with those letters will be listed on the screen. Press ▲ or ▼ on the scroll key to scroll through the names until you find the one you are looking for. Press "Select" key and the details will appear on the screen.

To dial that number, press  key. To view its options, press "Options" soft key.

Find a Phone Book record by its location

You can find a Phone Book record by the location of it in the Phone Book. The location is a number that you assign to a record when you save it to the Phone Book.

There are 3 ways to find a Phone Book record by location:

- Enter Phone Book, then scroll to "Find By Loc" and press the "Select" soft key and then the "Search" soft key. The first record in your book will appear and you can press ▲ or ▼ on the scroll key to display all the Phone Book entries.
- Enter Phone Book, then scroll to "Find By Loc" and press the "Select" soft key and then enter the location number and press

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the "Select" soft key. If the location is "2", press the  and  keys. The details of that record will be displayed on the screen.

- In standby mode, you can also find a Phone Book record by entering its location and then press the  key.

For example, in standby mode, if you want to recall the Phone Book record number 2, just press the  and  key. The record details will appear on the screen.

View your own phone number

Select "My Number" in the Phone Book menu & Log menu and your phone number will be displayed on the screen.

Erase a Phone Book Record

- Refer to "Find a Phone Book record by name" and "Find a Phone Book record by its location" on page 27 to find the record.
- When the record is displayed on the screen, press "Options" soft key to display the options. Press  or  on the scroll key to highlight "Erase".
- Press the "OK" soft key to erase the record.

Edit a Phone Book record

- Refer to "Find a Phone Book record by name" and "Find a Phone Book record by its location" on page 27 to find the record.
- When the record appears on the screen, press "Options" soft key. Press  or  on the scroll key to scroll the item(s) you want to edit, then press "Select" soft key.
- Edit the Phone Book record. When finished, you can press the "Back" soft key to return to the standby mode.

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Message Menu

The options in the Message Menu allow you to deal with voice mail and text messages.

You can use  or  on the scroll key to highlight an item and press "Select" soft key to enter.

Voice mail

The new voice mail messages will be displayed here. You can see the number of new voice mail messages and press "Read" to connect to your voice mail box.

This is a network dependent function. Please contact your network service provider for details.

Short message

View received short messages

To view received short messages:

- Select Short Msg in the Messages menu. Press "Select" soft key to enter, then press  or  on the scroll key to browse messages. If a message is urgent, the  icon flashes.
- Press "View" soft key to view a message. You can scroll messages by pressing  or  on the scroll key. While reading the message, you can press the "Options" soft key and select from the option below:

Reply: Reply to current message. To reply:

- After you select "Reply", you will be prompted to enter the reply message.
- When finished, you will be asked if the message is urgent or not. Press "Yes" or "No" soft key to select.
- A menu will follow. To send the message immediately, select "Send". To save the message to Draft box, select "Save". To cancel, select "Abort".

Forward: Forward current message to others. To forward:

- After you select "Forward", you will be prompted to enter the number of the receiver.

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- Then, you can choose to edit the original message or press the "OK" soft key to proceed to next step.
- When finished, you will be asked to send, save or change options ("Change Opt"). If "Change Opt" is selected, you can perform the following operations:

Callback #: Specify the callback # of this message.

Priority: Specify the priority of the message. You can choose from "Normal" or "Urgent".

Delivery Ack: Set up the delivery acknowledgement. If you set it to "Have Ack", you will receive a notification when a sent message is successfully received.

- A menu will follow. To send the message immediately, select "Send". To save the message to Outbox, select "Save". To cancel, select "Abort".

Erase: Erase this message.

Callback #: Press  key to dial the number directly. In addition, you can press the "Option" soft key to save the number to Phone Book or find that number in Phone Book.

SMS text input mode

Key	Letters
	1 @, . ' ; : ? _
	A B C 2
	D E F 3
	G H I 4
	J K L 5
	M N O 6
	P Q R S 7

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Key	Letters
	T U V 8
	W X Y Z 9
	(Space) 0 () < > { } [] << >>
	+ - * / = # \ ! % & " \$ i ç
	#

Write and send new messages

To write a new message:

There are 2 ways to write a new message:

Option 1: In the Messages Menu, select "Short Msg", then "Compose".

You will be prompted to enter the contents of the message. When finished, press "OK" soft key.

Now you can send the message. Follow the steps in the "To send a message" section below.

Option 1: In the Messages Menu, select "Short Msg", then "Quick Msg".

Various quick messages categorized in "Inquiry", "Appointment", "Greeting"..., etc. will be available for you to select. Select the one you desired and press "OK" soft key.

Now you can send the message. Follow the steps in the "To send a message" section below.

To send a message:

- After you have completed writing a message, The "Send to" screen will appear. Now you can select one of the following method to send the message:

Phone #: Enter the receiver's phone number and press "OK" soft key.

Email: Enter their email address.

Phonebook: Pick up the receiver's phone number from Phone Book.

Multi-addr: Send this message to multiple receivers. The "Add new" item will be highlighted and you can press the "Select" soft key to start adding the receiver's numbers to the list.

When you have finished with adding new numbers to the Multi-address list, highlight "Finish" item and press the "Select" soft key.

When finished, the "Action" screen will appear. You can select "Send" to send the message right away, "Save Outbox" to save this message to outbox, or "Change Opt" to access the options for this message:

Callback #: Specify the callback # of this message.

Priority: Specify the priority of the message. You can choose from "Normal" or "Urgent".

Delivery Ack: Set up the delivery acknowledgement. If you set it to "Have Ack", you will receive a notification when a message is successfully sent or failed.

View outgoing messages

The messages to be sent are stored in Outbox. You can enter the Outbox by selecting "Short Msg", then "Outbox" in the Messages Menu.

If you have multiple outgoing messages, press ▲ or ▼ on the scroll key to browse messages.

Press "View" soft key to read the selected message. While reading the message, you can press the "Options" soft key and select from the options below:

Status: Check to see if this message is sent successfully or not.

Erase: Delete this message.

Send again: Send this message again.

Erase messages

You can erase messages in the Inbox or Outbox.

Erase messages in the Inbox

- In the Messages Menu, select "Short Msg", "Erase", "Inbox".
- Press "Yes" soft key to erase.

Erase messages in the Outbox

- In the Messages Menu, select "Short Msg", "Erase", "Outbox".
- Press "Yes" soft key to erase.

Customize message settings

To customize message settings, select "Short Msg", "Settings" in the Messages Menu.

You can use the following items provided to customize message settings:

Save Msg: You can choose to let your phone save the new message you wrote automatically, don't save or prompt you before saving.

Expiration: You can set up the expiration period of message here. Expiration period is the time the message center handles the messages you sent and deliver them to the receiver you specified. If due to any reason, the message can not be delivered successfully within the expiration period, the message will be removed from the message center.

You can specify the duration in 30 minutes, 1 hour, 2 hours, 12 hours, 1 day, 2 days, 3 days.

Callback #: You can set up the Callback number for all your outgoing messages here. You can also set up the callback number separately before you send a message.

Signature: Signature is a short text (e.g. your name) that will be automatically attached to your outgoing messages if enabled. Press the "Select" soft key to access its options below:

Enable: Allows you to enable the signature function. To enable, press "Select" soft key. If there is no existing signature text, you will be prompted to enter the signature. When finished, press the "Save" soft key.

View: Allows you to view existing signature.

Edit: Edit existing signature.

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Alert type: Allows you to set up the type of alert that is generated when a new message is received by your phone.

Acknowledgement: You can set up the status of message delivery acknowledgement here:

Enhanced: You will receive a notification when a message is successfully sent or failed.

Normal: The status will only be shown when you check it in the Outbox.

No Acknowledgement: Deactivate the message delivery acknowledgement function.

Memory Management: You are provided with the following items to manage the phone message memory:

Erase message: You can choose to let your phone erase the old messages automatically ("Automatically") or keep all old messages ("Keep") in phone memory.

Warning: You can let the phone generate alert when the memory is full. Three levels are available.

Message alert

The message alert function can let your phone generate an audio notification when a new message or voice mail notification is received.

You can enter this function item by pressing "Select" soft key. Press ▲ or ▼ on the scroll key to select "On", "Off" or "Network" (depending on the network), then press "Select" soft key to confirm.

Web alerts

A Web alert is a small WAP message. When the WAP browser receives an alert from the WAP server, the alert is put into Browser Alert Inbox. You can press "Select" soft key to enter Browser Alert Inbox, and view the received Web alerts.

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Tools Menu

The Tools Menu provides several extra tools.

You can use ▲ or ▼ on the scroll key to highlight an item and press "Select" soft key to enter.

Browser

Using Browser

To enter Browser, select "Browser" in the Tools Menu and press "Select" soft key, or long press the  key in standby mode. A few seconds later, the home page will appear on the screen.

Now you can access the various on-line information through your phone. For details on the content of on-line service and how to use it, please contact your network service provider.

Please see the table below for the icons that may appear on the screen and their meanings:

Icon		Meaning
	Message	This icon indicates that there are new and unread incoming web alert messages or unsent outgoing web alert messages.
	Digital mode	This icon appears when the phone works in digital mode. You can access WAP service only when this icon appears.
	Connected	This icon appears when the phone is connected to the WAP server.
	Secure mode	This icon appears when you are in a secure web browser session.

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Key operations in Browser

Please see the table below for the key operations in Browser:

Press...	To...
 End/Power key	<ul style="list-style-type: none"> Return to the previous page. Long press to exit Browser. Clear current character when entering text.
 Scroll key	Select an item in a menu.
 Clear key	<ul style="list-style-type: none"> Return to the previous page. Long press to return to the home page. Clear current character when entering text. Long press to clear all characters when entering text.
 Star key	Long press to enter Browser options.
 Pound key	Long press to bookmark current website.
Volume adjustment key	Scroll the page up or down.
Alphanumeric keys	Long press a numeric key to jump to the bookmarked pages 1~9 in the bookmark list.

Browser options

You can long press the  key to enter the following Browser menu:

- Reload:** Reload current web page.
- Home:** Return to the home page.
- Bookmarks:** Open the bookmark list and choose a bookmark.
- Mark site:** Bookmark current web page.

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- About Openwave:** Display the Browser version and information about Browser and the phone.
- Advanced:** Provides advanced Browser setting options. Please contact your network service provider for details.

Entering text in Browser

When you are asked to provide text information when accessing on-line service (e.g. your ID number or sending messages), you can press alphanumeric keys to enter. Your phone provides 5 text entry modes.

To switch among these modes, press right soft key until you find the desired one.

alpha: Allows you to enter lower case characters.

ALPHA: Allows you to enter upper case characters.

SYM: If this mode is selected, a symbol list will appear on the screen. Press an alphanumeric key that corresponds to the number of the symbol to enter the symbol you want. You can press the "More" soft key, or   on the scroll key to get more symbols.

NUM: Allows you to enter numbers.

Eatoni: Please see "Letter-wise input method" on page 13.

Please see the table below for the keys and their corresponding letters in Browser:

Key	Letters
	1 @ , . ' ; : ? _
	A B C 2 Å Ä å ä à ç æ ß
	D E F 3 è é Ê Ë Æ
	G H I 4 ì î
	J K L 5
	M N O 6 Ñ ñ ò Ö ö Ø ø

Key	Letters
7 PQRST	P Q R S 7 Y §
8 TUV	T U V 8 ü Ü ù
9 WXYZ	W X Y Z 9
0	(Space) 0 () < > { } [] <<>>
* + @	+ - * / = # \ ! % & " \$ i ç
#	#

Exit browser

To exit Browser, long press  key.

Alarm clock

You can use this function to set up the alarm clock you need and store the alarm clock setting in the phone memory. There are three settings for you to choose.

You can use ▲ and ▼ on the scroll key to choose the item you want to set. Then press "Select" soft key to enter the submenu. You will be prompted to enter the time of your alarm clock setting.

Once: Press "Select" soft key and you will be prompted to enter the time of your alarm clock setting. In this mode, the alarm clock will only activate once.

Daily: Press "Select" soft key and you will be prompted to enter the time of your alarm clock setting. In this mode, the alarm clock will activate every day.

Off: Press "Select" soft key and you can set the alarm clock function off.

Scheduler**View your scheduler events**

Select "View" in the Scheduler Menu and Press "Select" soft key to enter.

There are three options in the menu. You can press ▲ or ▼ on the scroll key to select an option, and press "Select" soft key to enter.

Current : View the events in the present.

Past : View the events that have already occurred.

Go To Date : See the events of a particular day.

If there are no events for your selection, "No Record" will appear on the screen. Otherwise you can press ▲ or ▼ on the scroll key to select the record you want to view and press "Select" soft key to see the detail, or long press  key to delete the record.

In the event detail screen, you can press "Option" soft key to access the following options:

Modify: Press "Select" soft key to start modifying the contents of the event. When finished, press "OK" soft key and you will be prompted to select the date and then you will see the options as follows. You can press "Select" soft key to select the desired option or press "Back" soft key to return to previous menu.

Finish : Save the event to memory.

Time : Enter the time of the event.

Alarm : Select the alarm type: No Alarm, On Time, Mins Before, Hours before.

Repeat : Select the event repeat option: No Repeat, Daily, Weekly.

Erase: Press "Select" soft key again and the selected event will be deleted.

Add an event

You can add new events to your scheduler, and you can choose to let the phone generate an alarm to remind you of the event.

To add a new event, first select "Add" then press "Select" soft

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key to select this item, then a "Reminder" menu appears:

Meeting : add a new meeting.

Call : add a new call (will prompt for a phone number).

Other : add some other reminder.

Birthday : add a new birthday.

Press "Select" soft key to select the reminder type you want, then you will be prompted to key in the contents of the event and select the date of it. When finished, the Option menu will follow:

Finish : Save the event to memory.

Time : Enter the time of the event.

Alarm : Select the alarm type: No Alarm, On Time, Mins Before, Hours before.

Repeat : Select the event repeat option: No Repeat, Daily, Weekly.

Erase all

You can use this function to delete all events in the scheduler. After you press "Select" soft key to select this item, press "Yes" soft key and all events in the memory will be erased.

Calendar

Your phone is equipped with a built-in calendar with which you can check and browse days and weeks easily.

To move among months, use $*_{+@}$ and $\#_{\text{q}}$ keys.

To move among weeks, press the up or down volume adjustment key.

To move among days, use \blacktriangle and \blacktriangledown on the scroll key.

World time

With this function, you can easily check the current time in 6 major cities in the world. Select a city and the current time will appear on the screen.

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Calculator

You can use your phone as a handy calculator. A cursor will appear at the upper left of the screen. Follow the chart below to enter numbers and arithmetic symbols.

Key	Number/Function	Key	Number/Function
1	1	9_{WXYZ}	9
2_{ABC}	2	$0_{\text{.}}$	0
3_{DEF}	3	$*_{+@}$	+ - * /
4_{GHI}	4	$\#_{\text{q}}$. ()
5_{JKL}	5	C	Clear number
6_{MNO}	6	"Result" soft key	Display result
7_{PQRS}	7		Move the cursor
8_{TUV}	8	"Cancel" soft key	Cancel

For example, to calculate the following formula:

$$123 \times (456+34) / 4-2$$

Press 1 2_{ABC} 3_{DEF} $*_{+@}$ (3 times) $\#_{\text{q}}$
 (twice) 4_{GHI} 5_{JKL} 6_{MNO} $*_{+@}$ 3_{DEF} 4_{GHI}
 $\#_{\text{q}}$ (3 times) $*_{+@}$ (4 times) 4_{GHI} $*_{+@}$ (twice)
 2_{ABC} .

Press the "Result" soft key to display the result.

Scratch pad

The number you entered during a call (see "In call options" on page 18) is stored here. You can choose to save it to Phone Book.

Games

Your phone provides two interesting games: Snake and Digit.

Snake

Make the snake grow longer by feeding it with as many goodies as possible. Use **2_{ABC}** (up), **8_{TUV}** (down), **4_{GHI}** (right) and **6_{MNO}** (left) to direct the snake to a goody. The longer the snake, the higher the score.

You are not allowed to stop the snake or make it go backwards. When the snake hits its own tail or eggs, or the surrounding frame, a game is over. Then the screen will show your score.

After you select this game, you will see the following:

Continue: Resume a paused game. This item appears only when a game has been temporarily halted.

New Game: Start a new game. If you want to exit the game before it is over (to halt a game), press. To resume a halted game, go to Continue.

Set Level: Set the difficulty level of the game.

Last View: Show the result of the last game you played.

Help: Read the instructions for the game.

Digit

Rearrange the numbers in the correct order shown below. Use **2_{ABC}** (up), **8_{TUV}** (down), **6_{MNO}** (right) and **4_{GHI}** (left), or **▲** (up), **▼** (down) on the scroll key to move the numbers. While playing, the screen will show the time and number of steps you took.

1	2	3
4	5	6
7	8	9

The menu options in this game are exactly the same as those in Snake except that there is no Top Score.

Settings Menu

The options in the Settings Menu allow you to customize the sound, display and other settings of your phone according to your preferences.

You can use **▲** or **▼** on the scroll key to highlight an item and press "Select" soft key to enter.

Sound

Turn on or off phone vibration

- Select "Sound", "Vibration" in the Settings Menu.
- Select "On" or "Off" to turn on/off the vibration of the phone.

Hot Key: The mobile phone provides an easy way to change vibration setting. You can simply change vibration setting to "Ring" or "Vibration" by pressing the "C" button for over 2 seconds. When you press the "C" button for over 2 seconds, you will see the "Ring" icon and "Vibration" icon on the LCD display change by turns.

Adjust ring volume

- Select "Sound", "Ring", "Volume" in the Settings Menu.
- Use **▲** or **▼** on the scroll key to increase/decrease the ring volume. The more bars appear beside the speaker icon, the higher the ring volume.
- Press "Select" soft key.
- The ring volume can also be adjusted by pressing the volume adjustment keys on the side of the phone.

Select a ring style

- Select "Sound", "Ring", "Style" in the Settings Menu.
- Use **▲** or **▼** on the scroll key to highlight a call type you want to set up the ring style for. Press "Select" soft key.
- Use **▲** or **▼** on the scroll key to scroll through the ring style list or highlight a ring style. The highlighted ring style will be played automatically.
- Press "Select" soft key to select.

Adjust keybeep volume

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- Select "Sound", "Key Beep", "Volume" in the Settings Menu.
- Use ▲ or ▼ on the scroll key to increase/decrease the volume. The more bars appear beside the speaker icon, the higher the volume.
- Press "Select" soft key.

Select a keybeep style

- Select "Sound", "Key Beep", "Style" in the Settings Menu.
- Use ▲ or ▼ on the scroll key to highlight a keybeep type you want (tone or click).
- Press "Select" soft key.

Alert Switch

Under this sub-menu you can customize the alert settings of your phone.

Service Chg: Press ▲ or ▼ on the scroll key to select "Alert On" or "Alert Off". If you select "Alert On", the phone will alert when its service system changes from CDMA to AMPS or from AMPS to CDMA.

In/Out Srvc: In service alert is generated when your phone acquires network service. Press ▲ or ▼ on the scroll key to select "Alert On" or "Alert Off".

Roaming: Roaming alert is generated when you are roaming under a friendly network. Press ▲ or ▼ on the scroll key to select "Alert On" or "Alert Off".

Minute Alert: Minute alert is generated once every minute after a phone call is connected. Press ▲ or ▼ on the scroll key to select "Alert On" or "Alert Off".

VoicePrivacy: Voice privacy is generated when you need to set your voice privacy. Press ▲ or ▼ on the scroll key to select "Alert On" or "Alert Off".

Display

Backlight

When you press a key on the keypad, the back light of the screen will be turned on automatically. The back light of the phone screen allows you to clearly read the information displayed on the screen when the

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environment is dark. However, letting the back light stay on too long will drain the power of battery quicker.

Press "Select" soft key to view the option list and use ▲ or ▼ on the scroll key to highlight an item, then press "Select" soft key to select.

7 Seconds: If no key is pressed after the back light is on for 7 seconds, it will be turned off automatically.

15 Seconds: If no key is pressed after the back light is on for 15 seconds, it will be turned off automatically.

30 Seconds: If no key is pressed after the back light is on for 30 seconds, it will be turned off automatically.

Always On: The back light stays always on until you turn off the power of your phone.

Always Off: Always turn off the backlight.

Banner

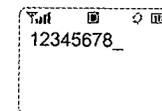
Banner is the text that appears to the center of the screen when your phone is in standby mode. You can press "Select" soft key to start editing the banner (maximum 14 characters). When finished, press "OK" soft key to save.

Auto Hyphen

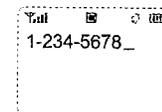
Auto hyphen function hyphenates the phone number automatically when you enter.

For example, if you enter the number 12345678:

With Auto hyphen function off:



With Auto hyphen function on:



Press "Select" soft key and then use ▲ or ▼ on the scroll key to select "On" or "Off", then press "Select" soft key to confirm.

Show Clock

You can choose to let your phone display or not display the current time in standby mode.

Press "Select" soft key and then use ▲ or ▼ on the scroll key to highlight "On" or "Off", then press "Select" soft key to confirm.

Screen Saver

Your phone provides 2 screen savers. After you activate the screen saver, if no incoming call is received and you leave the keypad untouched for about 1 minute, the animation will appear on the screen.

To activate screen saver:

- Select "Display", "Screensaver" in the Settings Menu.
- Use ▲ or ▼ on the scroll key to highlight "Animation 1" or "Animation 2".
- Press "Select" soft key.

To deactivate screen saver:

- Select "Display", "Screensaver" in the Settings Menu.
- Use ▲ or ▼ on the scroll key to highlight "Disable".
- Press "Select" soft key.

Language

You can choose the language used to display information on the phone screen.

- Select "Display", "Language" in the Settings Menu.
- Use ▲ or ▼ on the scroll key to select a language, then press "Select" soft key to confirm.



To change the display language from English to Spanish in standby mode, press "Menu" softkey and press **4_{GHI}** **2_{ABC}** **7_{PQRS}** **2_{ABC}** . To change from Spanish to English, press **4_{GHI}** **2_{ABC}** **7_{PQRS}** **1** .

Other Info

You can get some setting information of your phone in this mode. These information are as follows:

1. ESN
2. Software Ver
3. Hardware Ver
4. Technology
5. PRL Version
6. Data Status
7. Wap Status

Usage limit

Each time before you make a phone call, the usage limit timer will give you a warning beep if the total talk time exceeds the time limit set here.

To set up usage limit:

- Press "Select" key and you will be prompted to enter the limit time in minutes.

Power manager

The Power Manager allows your handset to be powered on or off at a specified time automatically.

To activate Power Manager:

- Use ▲ or ▼ on the scroll key to highlight "Power Off" or "Power On". Press "Select" soft key.
- To enable the function, highlight "Enable" and press "Select" soft key.
- Enter the power on (or off) time and press the "OK" soft key.
- You will be prompted to select "Today Only" or "Daily" for the Power Manager to take effect. Press ▲ or ▼ on the scroll key to highlight an item and then "Select" soft key to select.

To deactivate Power Manager:

- Enter Power Manager menu.
- Use ▲ or ▼ on the scroll key to highlight "Power Off" or "Power On". Press "Select" soft key.

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- To enable the function, highlight "Disable" and press "Select" soft key.

Set time

You can set up the system time of your phone here. However, if the digital network is available, the time setting of the digital network will override your time setup here.

To set up current time:

- Press the alphanumeric keys to set up current hour and minute. Use ▲ or ▼ on the scroll key to select "AM" or "PM". Press "OK" soft key.
- Then, use the alphanumeric keys to set up current date.
- Press "OK" soft key.

Speed dial

This feature, also known as 1-touch dialing, allows you to make phone calls quickly and easily with the touch of a button.

You must add names and numbers in your phone book (see "Add a Phone Book record" on page 26) before you can use this feature. Then you can assign a name from the phone book to a speed dialing location using your phone's 1 through 9 keys.



Speed dialing location 0 is reserved for your voice mail.

To assign speed dial locations:

Setup: Press "Select" soft key to enter, and use ▲ or ▼ on the scroll key to highlight "Setup", then press "Select" soft key to enter the submenu. In the submenu, you can assign a name from the phone book to a one-touch dialing location using your phone's 1 through 9 keys.

Activate: Press "Select" soft key to enter, and use ▲ or ▼ on the scroll key to highlight "Activate", then press "Select" soft key to enter the submenu and use ▲ or ▼ on the scroll key to highlight "On" or "Off". Then press "Select" soft key to activate this function or not.

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To call a number using speed dialing, ensure that Speed Dialing has been turned ON in the Settings Menu, then simply long press the assigned key to place a call.

Usage limit

When you dial a call, answer an incoming call or on conversation, if the total call time exceeds the time limit set here, the limited alert timer will give you a warning pop up display and beep.

To set up usage limit:

- Press "Select" key to enter Usage Limit On/Off menu.
- Use ▲ or ▼ on the scroll key to select "On", then press "Select" soft key.
- Enter the limit time in minutes.

To deactivated usage limit:

- Press "Select" key to enter Usage Limit On/Off menu.
- Use ▲ or ▼ on the scroll key to select "Off", then press "Select" soft key.

Answer mode

When an incoming call is received, you can choose to use one of the following modes to answer that call.

To choose an answer mode:

- Press "Select" soft key to view the options and use ▲ or ▼ on the scroll key to highlight the mode you want to use:

Send key: The call will be answered when you press  key.

Any key: The call can be answered by pressing any key on the keypad (except  key).

Auto: The call will be answered automatically after ringing for 3 seconds.

- Press "Select" soft key to select.



The Auto mode works only when a hands free or car kit is connected to the phone, or the Answer Machine function is activated.

Key guard

You can activate this function to keep from accidental key operations.

To activate key guard:

Press "Select" to select this item to activate key guard immediately. You can also activate the key guard function by long pressing key in standby mode.

After you activate the key guard function, you can still press key to answer an incoming call.

To deactivate key guard, first press key, then press key.

Letter Wise

To input using the LetterWise input method:

- Press the key with the intended letter. The letter will appear on the screen.
- If the intended letter does not appear, press key until it does. However, you can always get the intended letter.
- To erase a letter, press key. To erase all letters, long press key.

* LetterWise input method is optional for different models.

Call Services Menu

The Call Services Menu allows you to set up call and network services.

You can use or on the scroll key to highlight an item and press "Select" soft key to enter.

Auto Redial

When you try to make a call but you are not successful, you can let your phone try redialing for you.

To activate auto redial function:

- Press "Select" soft key to view the options and press or on the scroll key to highlight a mode you want to use.

Prompt: Your phone will prompt you before retrying.

Auto: If the call is not connected, your phone will retry making the call for 5 times.

Off: The phone does not retry making the call.

- Press "Select" soft key to confirm.

Data service

When used with the data service kit (can be purchased separately), your phone can be used to transmit/receive data or fax by making / receiving data or fax calls.

Before making or receiving a data or fax call, you need to switch your phone to one of the modes below:

Data Mode: Switch the phone to data mode and remain in this mode until you switch to other modes.

Fax Mode: Switch the phone to fax mode and remain in this mode until you switch to other modes.

Data Once: Switch the phone back to voice mode automatically after a data call is made or received.

Fax Once: Switch the phone back to voice mode automatically after a fax call is made or received.

If "Data Mode" or "Fax Mode" is selected, you need to switch your phone back to **Voice Mode** to receive voice calls.

Network

This network setting here determines which network the phone will select after it is turned on.

To change the network setting:

- Press ▲ or ▼ on the scroll key to highlight a mode you want to use:

CDMA Only: The phone can only use the CDMA network.

AMPS Only: The phone can only use the AMPS network.

Automatic: The phone selects a network mode automatically.

Temp AMPS: You can choose this item to force an AMPS call temporarily. This function will be set to Off automatically after you make an AMPS call or if no call is made 10 minutes after this function is activated.

- Press "Select" soft key to select.

System

You can choose the home system to use.

To select:

- Use ▲ or ▼ on the navigation key to scroll the options below:

Home Only: Use only home network.

Automatic: The phone selects the home system automatically.

- Press "Select" soft key to select.

Voice Privacy

Use this function to activate your voice privacy. Press "Select" key to start activating "Standard" or "Enhanced."



This is an optional and network dependent feature. Please contact your network service provider for availability.

Security Menu

The options in the Security Menu can help keep your phone from unauthorized access.

You have to enter the lock code to enter the submenu. The default lock code is the last four digits of your phone number.

After you enter the security code, you can use ▲ or ▼ on the scroll key to highlight an item and press "Select" soft key to enter.

Phone lock

This function allows you to lock the phone. If the phone is locked, you can only make emergency calls (see "Emergency number" on page 55).

To lock phone:

- Press "Select" soft key and then ▲ or ▼ on the scroll key to highlight one of the following options.

Power On: The next time you power on your phone, it will be locked automatically. To unlock the phone, enter the unlock code.

Now: The phone will lock immediately.

Off: Cancel all lock modes.

- Press "Select" soft key to select.

Change code

You can change the security code of your phone.

Press "Select" soft key and you will be prompted to enter the new lock code (4 digits). Enter the new lock code twice.

Call restrict

This function allows you to restrict incoming and outgoing calls.

Incoming

Restrict all incoming calls. Press "Select" soft key to enter and then ▲ or ▼ on the scroll key to highlight "Restrict" to activate the function or "Unrestrict" to deactivate the function, then press "Select" soft key to confirm.

Outgoing

Restrict all outgoing calls. Press "Select" soft key to enter and then ▲ or ▼ on the scroll key to highlight "Restrict" to activate the function or "Unrestrict" to deactivate the function, then press "Select" soft key to confirm.

Roam In

Restrict all incoming calls when you are roaming. Press "Select" soft key to enter and then ▲ or ▼ on the scroll key to highlight "Restrict" to activate the function or "Unrestrict" to deactivate the function, then press "Select" soft key to confirm.

Roam Out

Restrict all outgoing calls when you are roaming. Press "Select" soft key to enter and then ▲ or ▼ on the scroll key to highlight "Restrict" to activate the function or "Unrestrict" to deactivate the function, then press "Select" soft key to confirm.

Set Default

You can use this function to reset all phone settings to the manufacturer's default. The settings include: Banner, Alert Option, Backlight, Answer Mode, Retry Mode, Touch Dial, Call Restriction, Ring Volume, Ring Type, Key Beep Volume, Key Beep Type and Lock Code.

Press "Yes" soft key to reset.

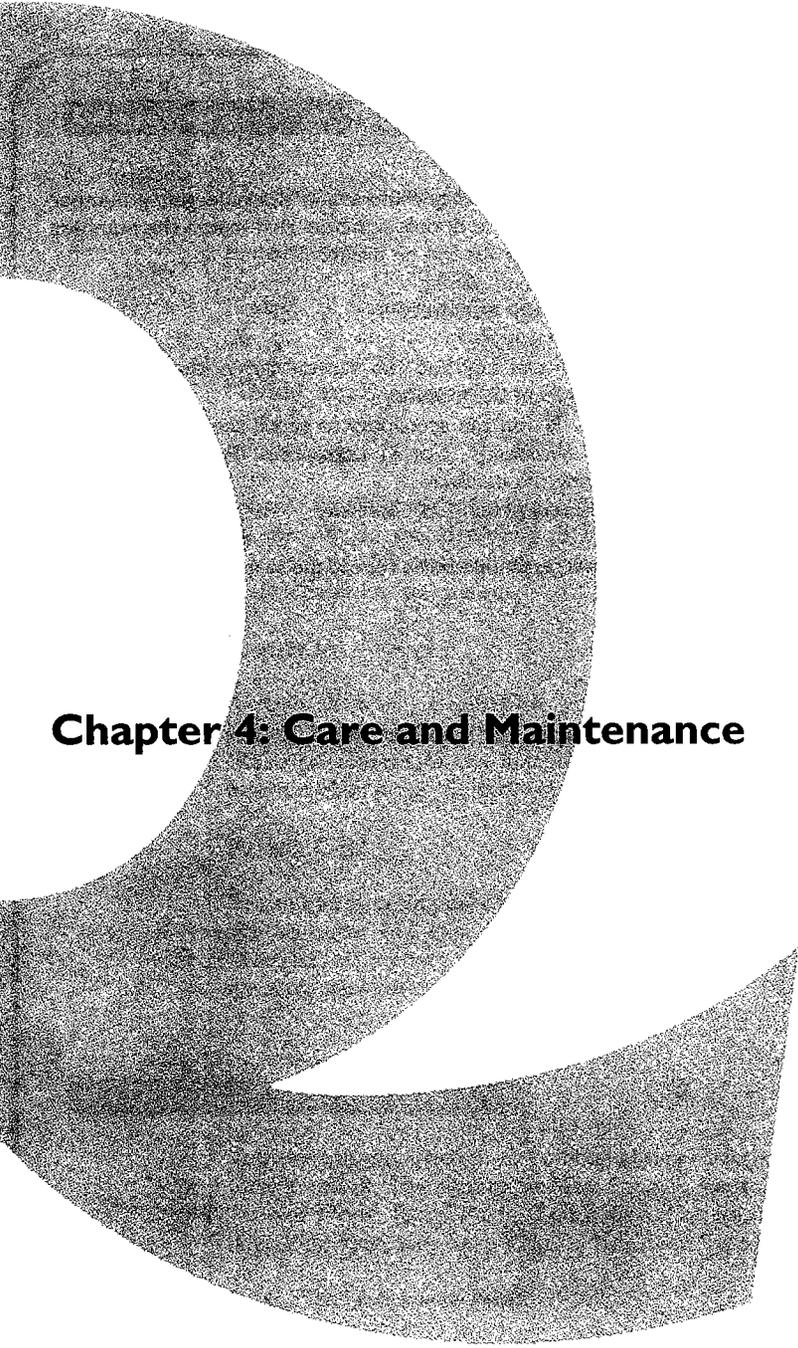
Emergency number

You can store three emergency numbers in the emergency number list. When the phone is locked, only numbers that match the numbers in the emergency number list can be dialed.

To add an emergency number:

- Press "Select" soft key and the screen shows the emergency number stored in the memory.
- Press ▲ or ▼ on the scroll key to scroll the location of the emergency number (1, 2 or 3), then press "Select" soft key to start entering the number.
- When completed, press "OK" soft key.

To add more emergency numbers, repeat the steps above.



Chapter 4: Care and Maintenance

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Your phone is a delicate electronic device and should be used and handled carefully in compliance with the instructions below. Failure to observe these instructions may void your product warranty.

- Do not use your phone in dusty and humid areas. Your phone is extremely vulnerable to liquid and sand grains can scratch the surface of your phone.
- Do not store your phone in extremely hot or cold areas. Heat can cause damage to both the outer case and components inside the phone. In an extremely cold area, moisture can form inside the phone after you turn on your phone and it can damage the components inside.
- Do not drop, shake or knock your phone. This will cause damage to the components and circuits of the phone.
- Do not use strong detergents, thinners or other corrosive liquid to clean your phone. Instead, use a clean, lint-free and slightly dampened cloth. When you do so, keep water from getting inside the phone.
- Keep your phone, batteries and accessories away from reach of small children.
- Use only supplied or approved replacement antenna and accessories. Unapproved antenna and accessories can cause damage to your phone and your health.
- Follow the safety instructions as set forth at the beginning of this manual.

Chapter 5: Troubleshooting

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When you encounter problems while using your mobile phone, please refer to the following table to solve the problem. If problem persists, please contact your dealer immediately for service.

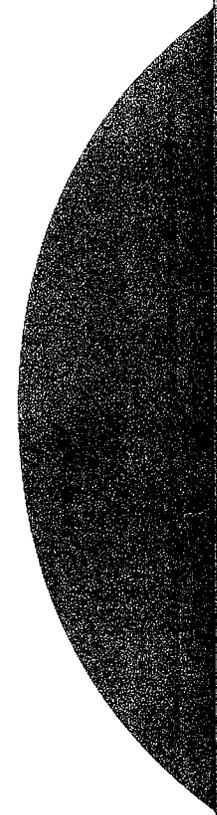
Problems	Possible cause	How to solve the problem
Poor signal reception	You are using your mobile phone in a location (e.g. in the basement or building) where signal is weak.	Move to a location where signal can be better received.
	You are using your mobile phone in a peak-demand time (e.g. the rush hour).	Make your call later.
	You are too far from the base station of your network service provider.	Move closer to a base station.
Echo or noise	Due to the quality of the network trunk of your network service provider.	Hang up the phone and then dial again. You may be switched to a better-quality network trunk or line.
	Poor local telephone line quality.	
The standby time becomes short	The standby time can depend on the system settings of your network service provider.	If you are in a location where the signal is weak, turn off your phone temporarily.
	The battery may be at the end of its service life.	Use a new battery.
	If the phone can not get connected to a network, it will continue searching for the signal from the base station, which consumes battery capacity.	Change your location or turn off your phone temporarily.
Unable to power on	The battery is drained.	Recharge the battery.

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Unable to charge the battery	The battery or charger is malfunctioning.	Contact your dealer.
	The phone temperature is under 41°F or above 104°F.	Change the battery charging environment.
	Poor connection.	Check to see if all connectors are connected properly.
Unable to input data into the Phone Book	The Phone book memory is full.	Delete some data from the Phone Book.
Unable to choose certain function(s)	Your network service provider doesn't support such function(s).	Contact your network service provider.

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