

NEC

A98-KMP6J1F1-1A

Users Manual with
RF Expose Warning Page

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Version 1**

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The availability of particular products may vary by region.^{1, 2, 3, 4}

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- 1 Some operations and features are network and subscription dependent and are not available in all areas. Check with your wireless service provider for availability and description of features.
 - 2 Some of the mobile Internet services have been pre-configured by the service provider.
 - 3 Languages may vary by region.
 - 4 SynchML® capability requires purchase of an additional NEC Authentic Accessories™ approved accessory.



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Safety and Performance

Fully charge the phone's battery before you use your new wireless phone (see page 17 for the first time charging instructions).

Emergency Services

Ensure your wireless phone is properly charged before attempting an emergency call. If your battery is empty, you will be unable to make or receive any calls including emergency calls.

To make an emergency call in the United States,

☛ Ensure the phone is turned ON and enter the emergency number for your present location (e.g., 911 or other designated emergency number).

☛ Press  key.

Ask the operator for the service which you require: Police, Ambulance, Fire, Coastguard or Mountain Rescue Services. Give all necessary information as accurately as possible and, if possible, remain stationary to maintain phone contact. Do not terminate the call until given permission to do so.

The 911 emergency number service is available on most digital network services in the United States.

Safety

Prior to operating your wireless phone, please read this manual thoroughly including the following care and safety information. For safe and efficient operation of the phone, observe the following guidelines.

General Care

A wireless phone contains delicate electronic circuitry, magnets, and battery systems. You should treat it with care and give particular attention to the following points.

- Do not allow the phone or its accessories to come into contact with liquid or moisture at any time.
- Do not place anything in the folded phone.
- Do not expose your phone to extreme high or low temperatures.
- Do not expose your phone to direct flame, cigars or cigarettes.
- Do not paint your phone.
- Do not drop or subject your phone to rough treatment.
- Do not place the phone alongside computer disks, credit cards, travel cards and other magnetic media. The information contained on disks or cards may be affected by the phone.
- Do not remove the phone's battery while the phone is turned ON.
- Take care not to allow metal objects, such as coins or key rings, to contact or short-circuit the battery terminals.
- Do not allow children to play with the phone; it is not a toy.
- Do not attempt to disassemble the phone or any of its accessories. For repair, contact a NEC qualified repair center.

 *In the United States of America the emergency number is 911.*

 *Emergency calls (E911) are possible without service activation or SIM. Your location is delivered to the emergency operator along with your caller-id as required by FCC guidelines for E911.*

 *Due to the nature of the wireless system, the success of emergency calls cannot be guaranteed. Never rely solely on a wireless phone for essential communications such as medical emergencies.*

General Safety

- The earpiece and phone may become warm during normal use. The unit itself may become warm during charging.
- Use only a damp or anti-static cloth to clean the phone. Do *NOT* use a dry cloth, a saturated wet-cloth, or electrostatically charged cloth. Do not use chemical or abrasive cleaners as these may damage the case.
- Remember to recycle: the cardboard packaging supplied with this phone is ideal for recycling.
- Observe 'Turn off 2-way radio' signs, such as those near gas stations, chemicals or explosives.
- A small rubber bung (for hands free socket protection) is included in the carton. Keep this out of reach of small children for whom it could be a choking hazard.
- Do not allow children to play with the phone, battery charger, batteries or SIM card.
- The operation of some medical electronic devices, such as hearing aids and pacemakers, may be affected if a wireless phone is used next to them. Observe any warning signs and manufacturer's recommendations.

Road Safety

Check the laws and regulations concerning the use of wireless telephones and their accessories in the areas where you drive and always obey them. If you find it necessary to use your cellular telephone behind the wheel of a car, please:

- Give full attention to driving and exercise proper control of your vehicle at all times.
- Observe all the recommendations contained in your local traffic safety documentation.
- Pull off the road and park before making or answering a call if driving conditions so require.
- Turn OFF your wireless phone at a refueling point, such as a gas station, even if you are not refuelling your own car.
- Do not store or carry flammable or explosive materials in the same compartment as a radio transmitter, such as a wireless phone.
- Electronic vehicle systems, such as anti-lock brakes, speed control and fuel injection systems are not normally affected by radio transmissions. The manufacturer of such equipment can advise if it is adequately shielded from radio transmissions. If you suspect vehicle problems caused by radio transmissions consult your dealer and do not turn ON your phone until it has been checked by qualified approved installers.
- Use hands free operation, if available.

Electromagnetic Interference

Most modern electronic equipment is shielded from radio frequency (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 a minimum separation of six inches (or 15 cm) be maintained between a handheld wireless phone and a 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 OFF your phone immediately and remove the battery.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your wireless service provider or call NEC Service Support at 1-800-639-5917.

Other Medical Devices and Medical Facilities

Operation of wireless phones could interfere with medical devices which are inadequately shielded from external RF energy. Consult a physician or the manufacturer of the medical device to determine if such devices are adequately shielded.

Turn OFF your phone in health care facilities, if 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.

Aircraft Safety

The use of wireless phones in aircraft may be dangerous to the operation of the aircraft and may be illegal.

Any use of a wireless phone on board an aircraft must be in accordance with applicable regulations. Follow all flight crew instructions and when instructed to turn OFF your wireless telephone, do so.

Vehicles

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

Posted Facilities

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

Blasting Areas

To avoid interfering with blasting operations, turn OFF your phone when in a blasting area or areas posted: "Turn Off Two-Way Radio." Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn OFF your phone prior to entering any area with a potentially explosive atmosphere, and obey all signs and instructions. Do not remove, install, or change batteries in such areas. 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. These 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.

Vehicles Equipped with an Air Bag

An air bag inflates with great force. Do not place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Battery Care and Disposal

Do not leave the phone or the battery in places where the temperature could exceed 140 °F, e.g., on a car dashboard or on a window sill, in direct sunlight, etc.

Do not put your phone's battery in your mouth as battery electrolytes may be toxic, if swallowed.

Your phone battery is a sealed unit with no serviceable parts inside; do not attempt to open the case. To ensure the maximum life from your battery, allow the battery to fully discharge at least once a week. To fully discharge the battery, leave the phone turned ON until the message "RECHARGE BATTERY" is displayed and the phone shuts itself off. If left unused, a fully charged battery discharges in approximately one month. Store batteries uncharged in a cool, dark, and dry place.

Batteries must be recycled or disposed of properly. Dispose of used batteries in accordance with any local regulations. Contact local waste management officials for information on the environmentally sound collection, recycling, and disposal of batteries.

Do not dispose of battery packs in a fire.

Your phone's Li-ION batteries may be safely disposed at Li-ION recycling points.

Radio Frequency (RF) Signals

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone contains a radio transmitter and receiver. Your NEC phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the output.

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 on position and locations (for example, at the ear and worn on the body) as required by FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is (TBD)W/kg, and when worn on the body, is (TBD)W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

Body-worn Operation

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section at <http://www.fcc.gov/oet/foia> after search on FCC ID A98-KM P6J 1F1-1A.

For body-worn operation, to maintain compliance with the FCC RF exposure guidelines, use only NEC approved authentic accessories.

Use of non-NEC approved authentic accessories may violate FCC RF exposure guidelines and should be avoided.

***In the United States, the SAR limit for wireless mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. SAR values may vary depending upon national reporting requirements and the network band.**



U.S. FDA's Consumer Update

The Food and Drug Administration's (FDA) Center for Devices and Radiological Health Consumer Update on Wireless Phones.

1. Do wireless phones pose a health hazard?
The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the standby mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.
2. What is FDA's role concerning the safety of wireless phones?
Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless 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, including the following:

- 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 wireless phone users with the best possible information on what is known about possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure coordinated efforts at the federal level. These following agencies that belong to this working group are:

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

The National Institutes of Health participates in some interagency working group activities, as well.

FDA Consumer Update

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are, thus, not the subject of the safety questions discussed herein.

3. What kinds of phones are subject of this update?

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaw in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to therefore for up to 22 hours per day. These conditions are not similar to the condition under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumor of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect, if one exists. Epidemiological studies can provide

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data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effect of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications and Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include abroad assessment of additional research needs in the context of the latest research development around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless phones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oei/rfsafety>) give directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

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8. What has the FDA done to measure the radiofrequency energy coming from wireless phones?
The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.
9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phones?
If there is a risk from these products--and at this point we do not know there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.
- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.
- Again, the scientific data does not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measure like those described above to reduce your RF exposure from wireless phone use.
10. What about children using wireless phones?
The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

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11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

The FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000.

The FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

- FDA web page on wireless phones
(<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RF Safety Program
(<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection
(<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project
(<http://www.who.int/emf>)
- National Radiological Protection Board (UK)
(<http://www.nrp.org.uk>)

FDA Consumer Update

Performance

Third Party Equipment

Use only batteries, chargers, and authentic accessories approved by NEC. Modifications, the use of third party equipment, cables, or accessories that are not made or AUTHORIZED by NEC may invalidate any approval, may invalidate the warranty of your phone, may adversely affect the phone's operation, and may be dangerous. For availability of approved accessories, check with your wireless phone dealer.

Service

The wireless phone, batteries and charger contain no user-serviceable parts. We recommend that your NEC wireless phone is serviced or repaired by an NEC AUTHORIZED service center. Please contact your Service Provider or NEC at 1-800-637-5917 if you believe that you require service. Any unauthorized service may invalidate the warranty of your wireless phone.

Efficient Use

For optimum performance with minimum power consumption, hold your wireless phone as you would any other wireless phone and speak directly into the mouthpiece.

Battery

The 515 phone contains an 800 mAh, standard Lithium-Ion battery. Battery performance depends upon signal strength, network configuration, phone features selected, battery age and condition, battery charging habits, temperatures to which battery is exposed, and many like factors.

Antenna

Your phone has an internal antenna located at the base of the phone below the keypad. As with any other radio transmitting device, avoid touching the antenna area when the phone is switched on to optimize the antenna performance and talk time of the phone. Contact with the antenna area may affect call quality and may cause the phone to operate at a higher power level than otherwise needed.



Main Features

The GSM GPRS phone can be used almost anywhere in the world with the Quad band (GSM 850/1900 and GSM 900/1800 bands). Your phone has the following features:

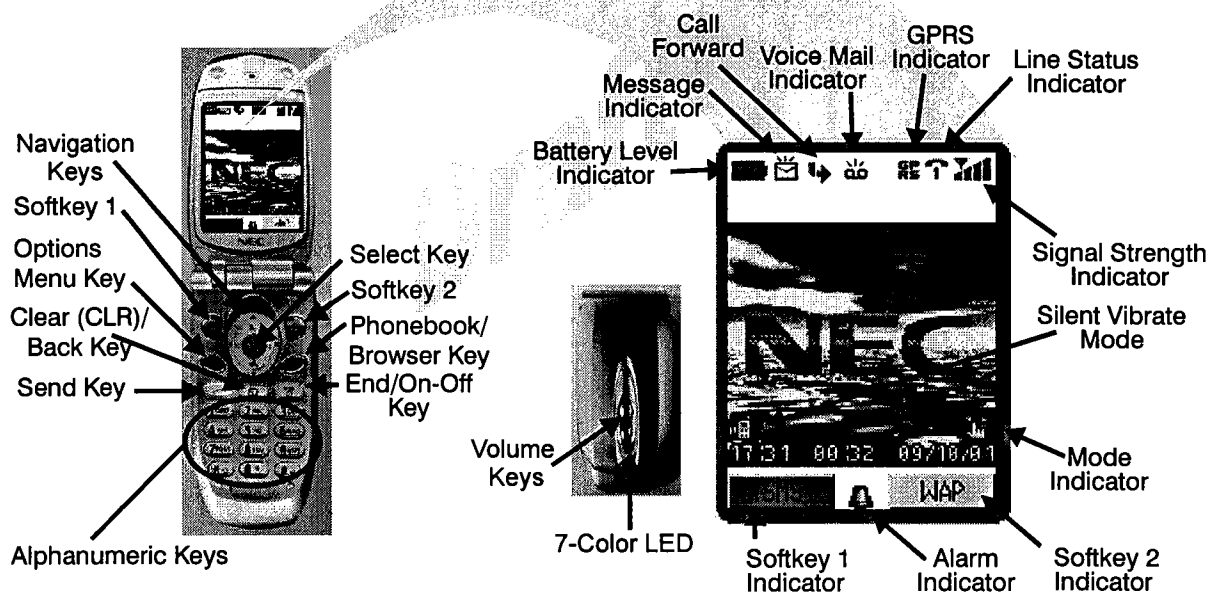
- 3 Games
- 2 Softkeys
- 7-Color LED
- 10 Voice memos (20 seconds recording time per memo)
- 10 Voice Recognition Tags
- 800 mAh Li-ion Battery
- Alternate Line Service (ALS) compatible
- Calculator
- Color ID alert and vibrate mode
- Currency converter
- Date, Time & Alarm functions
- Download graphics, phonebook pictures and ring tunes
- Internet Enabled
- IRDA/business card transfer
- JAVA
- Large 2.2 inch, 216 (height) by 162 (width) pixels with 65,536 color display screen
- Messaging (EMS/MMS/SMS)
 - *Enhanced Message Service (EMS)*
 - *Multi-media Service (MMS)*
 - *Short Messaging Service (SMS)*
- Multi-party call capability (conference calling)
- One-button Internet access (mMode)
- Organize your life with SynchML functionality (synchronizes Phonebook, To Do's, and Scheduler/Calendar)
 - *Universal Inbox to store e-mails and short messages*
 - *Contacts*
 - *Scheduler/Calendar*
 - *To Do Lists*
- Personalize your phone with downloadable content
 - *40-layer polyphonic ring tunes*
 - *Wallpapers*
 - *Power on/off animations*
 - *Picture caller-id (10)*
- Phonebook (can store up to 700 records)
- SIM memory phonebook (can store up to 255 records, depending on SIM capacity)
- T9™ Text Input
- User mode settings (Normal, Meeting, In Pocket and In Car)
- Voice mail
- Voice activated dialing

Keypad Shortcuts and Softkey Access

The following single button facilities are available from the standby (idle) screen (the screen that automatically appears when the phone is powered ON but not in use.)

- ☛ Press the ▲ key to access the phone mode menu (see page 51).
- ☛ Press the ▼ key to access the voice memo list (see page 52).
- ☛ Press the ◀ key to access the received call list (see page 35).
- ☛ Press the ▶ key to access the missed call list (see page 35).
- ☛ Press the  key to access the options menu for the current screen (see page 12).
- ☛ Press the  key to access the phonebook (see page 37).
- ☛ Press and hold the  key to access the browser (see page).
- ☛ Press **Softkey 1** (located on the left hand side of handset) to access the main menu (see page 12).
- ☛ Press **Softkey 2** (located on right hand side of handset) to access message box (see page 12).
- ☛ Press off-hook (send)  key once to access the dialed call list.
- ☛ Press off-hook (send)  key twice to redial the last called number.

YOUR PHONE'S CONTROLS AND DISPLAY



Service Activation

Before you can use your new NEC wireless phone, the service must be activated by a wireless service provider. Please contact your local wireless service provider for any questions regarding phone activation.

Voice Mail Messaging and Text Messaging

Voice mail messaging and text messaging services, when available, are provided by your wireless service provider. Before you can receive either voice or text messages with your phone, you must subscribe to these wireless service provider options. Contact your wireless service provider for information on availability and setup of these services.

Phone Password

When your service is activated, a 4-digit PIN 1 is programmed into the unit. The PIN locks and unlocks your phone, and provides access to restricted phone settings. The initial PIN 1 programmed into the phone is usually 0000. Check with your wireless service provider for additional information on your security PIN 1.

Getting Started

Charging the Battery the First Time

Your phone is powered by a rechargeable battery. A new phone battery must be fully charged before being used for the first time.

- Before trying to use your phone, insert the phone's battery (see right) and connect the NEC battery charger supplied with your phone to a suitable main power socket
- Connect the charger plug into the connector at the base side of the phone (see right). Check the battery icon is pulsing and the LED glows red (located at the back of the flip). Close the phone and switch on the main power to the charger. The LED glows red. Leave the phone charging until the LED goes out to fully charge the battery, .



DO NOT connect a charger or any other external DC source if the phone's battery is not inserted.

Checking the Battery

The battery charge indicator shows the approximate charge level of the battery while the phone is in use and not being charged.

- Check the icon at the top, right corner of the screen.

The blocks on the display show the charge of your battery pack.

Full battery power 

Low battery power 

Battery empty (red) 

Low Battery Indication

When the battery voltage falls below the working level, **Recharge battery** displays on screen along with an empty battery icon. While displaying the recharge notification, the phone also sounds a short tone at ten-second intervals. Once the recharge message displays and the short tone sounds, the phone battery has approximately one minute of use remaining. The phone automatically powers off.

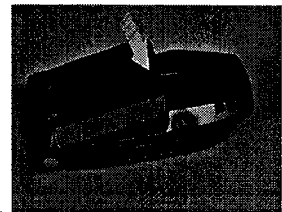


Please charge the battery until fully charged after the battery is very low.

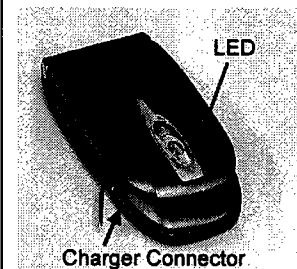
Standby and Talk Times

Your wireless phone works closely with the network you are using to provide the services you need, and the standby and talk times achieved depend on how you use the phone and choices made by the network operator.

The minimum performance of the 800 mAh, standard Lithium battery is: 200 hours standby time and 3 hours talk time. These times are estimates only and depend on your location within the network, the frequency at which your location is updated, the type of SIM you have, your reception area or 'cell broadcast' messages, and the use of Full Rate or Enhanced Full Rate speech, as well as other factors, affect both standby and talk times.



- Place the grooved end of the battery against the base of the phone. Lower the battery toward the phone to lock into place.



- The LED located on the back of the flip indicates when charging is complete by turning off.

Charging a Battery

The charger unit begins to restore the battery power when it is connected to the phone.

- ☛ Connect the charger plug into the connector at the base side of the phone as indicated. Check the battery icon is pulsing and the LED glows red (located at the back of the flip).

During charging, the battery icon pulses and the LED continually glows red. When charging is complete, the battery icon will stop pulsing and the battery icon displays as full. The battery icon and LED display as described even when the phone is turned OFF during charging. (TBD)

If you need to receive calls, the wireless phone can be turned ON and left in standby while it is charging, although the total time taken to charge is then increased.

The wireless phone is designed to be charged with the NEC equipment listed with the specifications of your phone.

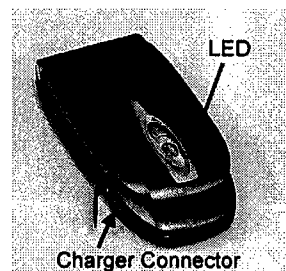
- ☞ **Do not try to charge the battery if the temperature is below 0 °C (32 °F) or above 25 °C (77 °F).**
- ☞ **Using any battery pack or AC adapter not specified by the manufacturer for use with this phone creates a potential safety hazard.**

Changing the Battery

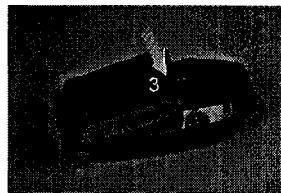
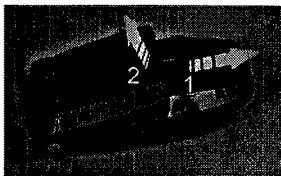
This equipment is fitted with an internal battery that can only be replaced by a qualified service engineer. There is a risk of explosion if the battery is replaced by an incorrect type. EPA requires proper disposal of used batteries in accordance with the manufacturer's instructions.

Make sure the phone is turned OFF. Some settings, stored numbers, and messages may be lost if the battery is removed while the power is ON.

- ☛ Slide the battery catch towards the base of the phone ① and carefully lift the battery away from the phone ②.
- ☛ Put the new battery pack in place with the battery terminal end towards the hinge of the phone ③. Lower the battery toward the phone to lock into place.



☞ **Using any battery pack or AC adapter not specified by NEC for use with this phone may be dangerous and may invalidate any warranty and approval given to the wireless phone. Do not connect more than one charger at any time. Do not leave the charger connected to the power supply when it is not in use.**



Preparing the Phone

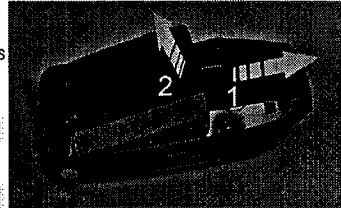
Before you try to use your phone, check the following has been carried out.

- Valid SIM card inserted (see below)
- Battery charged (see page 18)

SIM Card

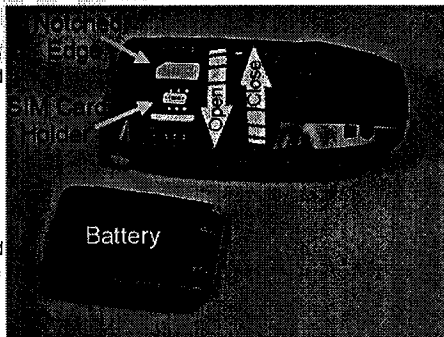
Before using your wireless phone you must sign-up/register with a wireless network service provider to receive a personal SIM (Subscriber Identity Module). The SIM card contains a computer chip that keeps track of your phone number, the services included in your subscription, and your SIM phonebook information.

The phone is unusable (except for E911 emergency calls) until a valid SIM is inserted. It is possible to transfer your SIM to another compatible phone and access your network services. The screen on your phone displays appropriate messages if the SIM card is not inserted properly.



Inserting a SIM Card

- Make sure that the power is off and then remove the battery ① & ② to reveal the SIM location.
- Slide the SIM card holder in the battery compartment to open the latch and lift the holder up. Insert the SIM card into the card holder with the notch on the card lined up as shown. Make sure the SIM is **fully** inserted in the holder and gently press the card holder into place. Slide the SIM card holder to close the latch and replace the battery.



Removing a SIM Card

- With the battery removed, slide the SIM card holder in the battery compartment to open the latch and lift the holder up. Pull the SIM card out of the card holder. Gently press the card holder into place. Slide the SIM card holder to close the latch and replace the battery.



If the phone, or the SIM, is lost or stolen then you should contact your Service Provider immediately in order to prevent unauthorized use.



The phone supports a number of languages and the keyboard symbols have been chosen for world-wide operation.



The digital technology of your NEC GSM phone helps to ensure that your conversations are kept secure.



The SIM card contains personal data such as your electronic phonebook, messages (see page 33) and also details of the network services you have subscribed to. The phone will not work (except for emergency calls on some networks) unless a valid SIM is inserted.



If the SIM card is not fully inserted when the battery is replaced, damage to the SIM card can occur.



If the SIM is already inserted, see Powering the phone ON page 20.

Powering on the Phone

Turning the Phone ON

- Hold down the power key  for at least two seconds to switch ON. The screen either remains blank or displays an animation or greetings text (see page 30 to change the text). The phone is then in standby (idle) screen.

Turning the Phone OFF

- Hold down the power key  until the display shows the power down message.



Standby screen

Display Information

Graphic Display Area

The graphics display area is a 2.2 inch screen in 65,536 colors. This area contains the greeting graphic on power up, status graphics and information when searching for networks and making calls. When in idle screen, it shows the current network, vibrator status, mode status, current time and date, and whatever you have keyed in on the phone's keypad. When **Softkey 1** is pressed, this area displays the phone's main menu options (animated icons and text). Many of the phone's features are activated using the powerful menu structure (see page 21).

Status Icons

This area contains icons which indicate the battery strength, unread short messages, not accepting call on, call transfer, voice mail, GPRS attached, connection status, and Network signal strength.

Help and Softkey Area

Depending upon the current screen, this area contains applicable help text information (e.g. key presses remaining when composing a message) or context sensitive descriptions of the softkey functions. The

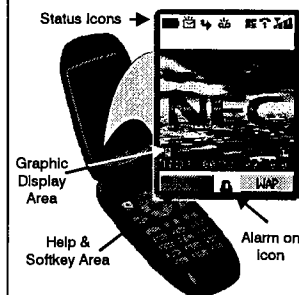
7 Color LED

The LED is located on the back of the handset's flip. Any of the LED's 7 colors can be allocated to specific phone numbers so received calls from these numbers can be identified (see page 38). When the phone is being charged it glows red. When there is an outstanding short message or voice mail, it glows blue.

 It is recommended that you fully charge the battery before using your wireless phone.

 The greeting message may not be as indicated if any locks have been set or the wrong SIM has been inserted. Please follow any instructions given, e.g. 'Return to Service Center'.

 Do not remove the battery to turn your phone OFF as this may cause loss of stored information.



Setting the Display to Language Preference

If the display is showing any language other than your own, proceed as follows:

- Press **Softkey 1** to access the Main Menu. Press **1 2 6** to display the Language screen.
- Press the appropriate key to select the required language (see table right). (TBD)
- Press **⏏** key to return to the standby screen.

Language	Key
English	1
Spanish	2
French	3

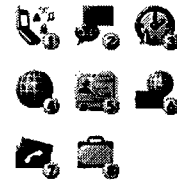
Menu Structure

The menu structure begins with the Main Menu icons. To access a menu option:

- Press **Softkey 1** to access the Main Menu. Press the option number **1** through **8** or Use the **◀ ▶ ▲ ▼** navigation keys to highlight the desired option and press **Select** key.

1. Phone Settings 1. Phone Settings 2. Screen Settings 3. Call Settings 4. Security Settings 5. Network Settings 6. Other Settings 7. Reset Settings	2. Messaging E-mail 1. i-Menu 2. Bookmarks 3. Go to Webpage 4. Saved Page 5. Last URL 6. i-Mode Setting	3. Clock 1. Show Clock 2. Set Time 3. Set Date 4. Set Alarm 5. Set Auto On/Off 6. Set Format 7. Timezone
4. Internet (TBD) 1. Bookmarks	5. Phonebook 1. Phone List 2. Complete List 3. Sim List 4. FDN List 5. SDN List	6. My Downloads 1. Apps and Games 2. Music 3. Pictures 4. Fusion Downloads
7. Call Records 1. Last Call 2. Missed Calls 3. received Calls 4. Outgoing Calls 5. Total Calls 6. Charge Info 7. Redial Blacklist	8. Applications 1. Calculator 2. Scheduler 3. To Do List 4. Notepad 5. Currency Converter 6. Voice Memo 7. Games 8. PIM Synchronization	

 The Main Menu Icon becomes animated when it is highlighted.



Display Icons

Status Bar Indicators

Signal Strength



Battery Power



New Message



New MMS Message



Locked



New Voice Mail Message



Dial Screen Icons

Outgoing Call Dialing



Outgoing Call Connected



Received call



No Network Connection



GPRS



Call Divert ON



ALS Line 1



ALS Line 2



Idle Screen Icons

Vibrate Mode ON



Pocket Mode ON



Meeting Mode



Car Mode ON



TTY ON



Alarm ON



Silent Mode



USB Connection



Line Item Icons

Cascading menu arrow		Wireless phone number field label		CLID picture field label	
Cycling field arrows		Fax number field label		Ring tone field label	
"Business" category		Data number field label		Voice tag field label	
"Personal" category		Additional phone number field label		"SMS/EMS"	
"Others" category		Email address field label		"SMS/EMS with attachment"	
"High" priority		Note or freeform text field label		"MMS"	
"Low" priority		Group name field label		"MMS with attachment"	
"Normal" priority		LED color field label		"Email"	
Clock/timer		Home phone number field label		"Email with attachment"	
Name field label		Work/business phone number field label		Private Status	
Complete (task, item, etc.)					

Full-size Pop-up Screen Icons

Busy/Please Wait		Decision symbol	
Activity successful		Message arrived	
Activity failed			

Alert Popup Icons

Reminder of scheduled event	
Low battery alert	
Something needs attention	

Setup Options

Voice Mail

(TBD)

Frequency Bands

The type of frequency band that you use depends upon your location.

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 5 4** for the Band screen to display.
- ☛ Press **1** to select the 850/1900 frequency band if you are located in the United States. Press **2** to select the 900/1800 frequency band if you are located in Europe.

☛ *Frequency bands need to be changed for the wireless phone to work properly when traveling outside the United States.*

Basic Calls and Phone Use

Displaying Your Own Phone Number

- ☛ To access the Main Menu and the Number screen, press **Softkey 1**. Press **1 1 6**.
- ☛ Input your phone number and press **Softkey 1** to save and accept the number that displays as your phone number.

Connecting To the Network

- ☛ Open your phone. To turn it ON, press and hold down the power key  for at least two seconds.

After start-up (and correct PIN 1 code entry if necessary), the phone searches for a network. When found, the network name displays. You also see the time and date (if set on- see page 28), signal strength, battery strength and any cell broadcast messages if this feature is enabled. To see the display details, refer to the diagram on page 13.

The phone's LCD display shows the strength of the radio signal that links your phone to the network. A maximum signal is shown by  and a minimum signal by .

Dialing Basic Calls

You make a call the same way as you would with a normal push-button phone, except you press the send  key after entering the area code and phone number.

To make international calls, press and hold  key until a + sign appears on the display. Enter the country, area code (without the leading zero) and phone number. The + replaces the international prefix number of the country from which you are calling and informs the network that you are making an international call (see page 49).

Starting a Call

- ☛ Key in the phone number. Check the number on the display.
- ☛ Press  key or **Softkey 1** to send the call.
- ☛ To end the call at any time, press  key to return to the standby screen or close your phone.

While making the call, the screen displays the name and phone number dialed (if a name has been stored in memory along with the number - see page 36) and a connection graphic or a phonebook picture if one has been allocated to the number called (see page 38).

The number dialed and information related to the number dialed is stored in the dialed calls list. The last 10 calls made are stored. Each time you make a call after the dialed call list is full, the oldest call drops off the list and the newest call placed at the top of the list.

- ☛ Press off hook (send)  key to access the dialed call list.

 If you do not wish your number to be displayed on the phone you are calling, turn the send own number feature off (see page 51).

 See also: Phone Number Editing on page 45.

Correcting Mistakes

Use the ◀ or ▶ key to scroll through the number and press **CLR** to clear individual digits or hold down the **CLR** key to completely clear a phone number. A key press to **CLR** clears the number to the left of the cursor.

Ending Calls

To end a call, press **END** key or press **Softkey 2** or close your phone. The phone returns to standby (idle).

Receiving Calls

When someone calls your number (you receive a call),

- The phone ringer sounds (if set on - see page 29).
- The LED (located at the back of the flip) flashes.
- The phone number of the person calling may display in the middle of the screen if the calling line identification (CLI) feature is available and the caller has activated the feature.
- The calling person's number along with a name and a picture (see page 36) may display if you have the caller's phone number, name, and an assigned picture stored in the phonebook.

If the caller has withheld their calling line identification, the screen provides a message that the number is being withheld.

Accepting a Call

Press the **ANS** key or **Softkey 1**.

Rejecting a Call

Press **END** key or **Softkey 2** or close your phone. The call goes automatically to voicemail.

You also have options for placing calls on hold and call forwarding/transferring calls. These options depend upon your network and your subscription arrangements with your local service provider.

If your wireless phone receives a call and you do not answer it, the screen displays the telephone number (with a name if a stored number) of the caller (if available). This information is stored in the missed calls list. Up to 10 missed calls are stored in the missed call list. The last 10 received calls are stored in the received calls list.

Placing a Call On Hold

You can place an received or outgoing call on hold by pressing **Softkey 1**. To retrieve the call, press **Softkey 1** again.

Unsuccessful Calls/Auto Re-dial

If the call cannot be connected, you will hear a tone. The display shows an appropriate message, and the phone returns to standby. If your phone is set to Auto the number is automatically called again after a short delay (see page 30).

If a connection is broken, such as by a poor radio signal, then the phone returns to standby. You may also get a warning tone. (TBD)

 Always press **END** key or close your phone even if the other person has ended the call first.

 If the **END** key is held down, your phone will turned OFF.

 You can set your phone to answer a call when any key is pressed except the **END** key - see 'Answer key' on page 30. If you are making a call, the phone gives priority to receiving a call unless you have already pressed the **END** key.

 See Also: Call waiting & holding (page 51) and Call forwarding/transferring (page 51).

 See Also: Viewing received and Missed Calls on page 35.

 See Also: Storing and retrieving numbers on page 34.

Stored Numbers

You can store numbers and names on your phone, and recall these numbers to make calls. The numbers and names are stored on your SIM card and/or phone's memory.

The following numbers are considered to be stored numbers:

- Numbers you have stored yourself
- The last 10 dialed call numbers (redial numbers)
- The last 10 received calls (if caller id is available)
- The last 10 missed calls (if caller id is available)

The SIM card holds up to 255 phonebook numbers. The phone memory holds up to 700 phonebook records.

Emergency Calls

From the standby (idle) screen, the standard emergency number of 911 can be used.

☞ Key **9 1 1**

☞ Press  to connect the call to local emergency services.

When the phone is first turned ON, SOS displays briefly in the softkey bar of the screen.

☞ Press **Softkey 1** to call emergency services.

Last Number Redial

To view and redial the last number you called:

☞ Ensure the standby screen is displayed and no phone number is shown. Press  once.

☞ Press the  key again. The last number you dialed is automatically called.

Earpiece Volume

To change the earpiece volume during a call, proceed as follows:

☞ Use the keys on the back of the flip. Use the top button (full round) to increase volume and the bottom button (eclipsed) to decrease volume.

When you are not making any calls (idle screen):

☞ Press **Softkey 1** to access the Main Menu. Press **1 1 1** for the Voice screen to display.

☞ Use the  or  keys to adjust the volume setting. Press **Softkey 1** to store the setting.

🔑 See also: Dialed call log on page 35.

📖 On some networks, 911 emergency calls can be made without a SIM card inserted.

📖 If you remember the last call made, simply press  key twice.

Personalizing Your Phone Settings

Time, Date and Alarm Set

Your phone has the ability to store the time for two time zones: Home (local time) or World (remote time). Only one date is stored. This information is displayed, in 12 or 24 hour format (see below), on the standby screen and can be used to trigger an alarm. To set the time and date, proceed as follows:

Format the Date and Time

To change the date/time format:

- Press **Softkey 1** to access the Main Menu. Press **3 6** for the Date Time Format screen to display.
- Use the **▲** and **▼** keys to scroll to the preferred date format and press the **Select** key.
- Use the **▲** and **▼** keys to scroll to the preferred time mode and press the **Select** key.
- Press **Softkey 1** to accept the date and time format beside the selected radio buttons and return to the Clock Menu screen.

Setting the Time

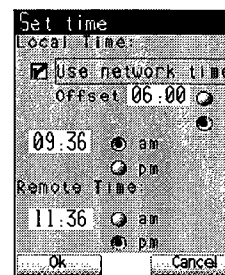
The time may be set from the Main Menu or from the Options Menu. (TBD)

- Press **Softkey 1** to access the Main Menu. Press **3 2** for the Set Time screen to display.
- To access the Set Time screen from the Options Menu, press **MENU 3 2**.

Network Time

- With 'Use network time' highlighted, press the **Select** Key to choose the network time for the time setting. A **✓** is placed in the box beside Use network time.
- Use the **►** key to move to the Offset field.
- Key in the hours and minutes for the preferred time difference.
- Use the **►** key to move to '+' and '-' radio buttons.
- Use the **▲** and **▼** keys to select the radio button for an advanced time difference (+) or a lag time difference (-).
- Press **Softkey 1** to store the time setting/time difference and return to the previous menu.

The time is always entered in the 24 hour format even if you wish to display it in the 12 hour format.



Local Time

- ☞ Use the ▼ key to move to the Local Time field.
- ☞ Key in the local time for the time setting.
- ☞ Use the ► key to move to the am/pm radio buttons.
- ☞ Use the ▲ and ▼ keys to select the radio button for am or pm.
- ☞ Press **Softkey 1** to store the time setting and return to the previous menu.

Remote Time

- ☞ Use the ▼ key to move to the Remote Time field.
- ☞ Key in the remote time for the time setting.
- ☞ Use the ► key to move to the am/pm radio buttons.
- ☞ Use the ▲ and ▼ keys to select the radio button for am or pm.
- ☞ Press **Softkey 1** to store the time setting and return to the previous menu.

Setting the Date

The date may be set from the Main Menu or from the Options Menu. (TBD)

- ☞ To access the Main Menu, press **Softkey 1**. Press **3 3** for the Date screen to display or to access the Date screen from the Options Menu, press **MENU 3 1**.
- ☞ With 'Use network date' highlighted, press the **Select** Key to choose the network date for the date setting. A ✓ is placed in the box beside Use network date.

If you are not using the network date:

- ☞ Use the ▼ key to move to the Day field.
- ☞ Key in the 2 digits for day of the month and press the ▼ key to move to the Month field.
- ☞ Key in the 2 digits for month and press the ▼ key to move to the Year field.
- ☞ Key in the 4 digits for year and press **Softkey 1** to store the entered date.

Show Clock

This option allows you to select the time that you prefer to display on the idle standby screen.

- To access the Main Menu, press **Softkey 1**. Press **3 1** for the Show Clock screen to display. A box surrounds the currently selected option.
- Press **1** to display the local clock, **2** to display the local and remote clocks, or **3** for no clock display. If you have selected either the 'local' or 'local & remote' options, a ✓ is shown over the show clock icon.

Setting the Alarm

- To access the Main Menu, press **Softkey 1**. Press **3 4** for the Alarm screen to display.
- Use the ◀ or ▶ key to scroll to "On" or "Off" and press the Select key.
- Key in the required alarm time using the 24 hour format and press **Softkey 1**.
- Using the text entry procedure described on page 45, enter the alarm description and press **Softkey 1**.

Resetting the Alarm

- To access the Main Menu, press **Softkey 1**. Press **3 4** for the Alarm screen to display. (TBD)
- Use the ◀ or ▶ key to scroll to "Off" and press the **Select** key to turned OFF the alarm and return to the clock menu.

Volume

- To access the Main Menu, press **Softkey 1**. Press **1 1 1** for the Voice screen to display.
- Use the ▲ and ▼ keys to adjust the volume setting or press a number key **0** (Quiet) - **9** (Loud) and press **Softkey 1** to select the current setting.
- To cancel without adjusting the volume setting, press **Softkey 2** and return to the Phone Settings Menu. If no key is pressed for some time, no change is made and the standby screen displays.

Ring Tunes

You can set up your ring tunes by changing the ringer setting in the Normal phone mode.

To access the Main Menu, press **Softkey 1**. Press **1 1 2** for the Ringer Tune screen to display. (TBD)

Greetings/Animations

Four types of greeting screens can be selected as follows:

- To access the Main Menu, press **Softkey 1**. Press **1 2 1** for the Power-on Greeting screen to display.
- Use the ▲ and ▼ keys to scroll to required greeting (see table right) and press the Select key. A ✓ displays besides the selected greeting.

When the alarm is set, a ✓ displays over the alarm icon and the ⚙ icon displays at the base of the standby screen.

During a call, the earpiece volume can be adjusted by pressing the buttons located on the back of the flip. These keys also adjust the volume on the hands free ear piece accessory.

You can also download ring tunes, see page 54.

Greeting animation is downloadable (see page 54).

Greeting Modes
Text
No Greeting
Animation 1
Animation 2
Animation 3

Standby Screen Picture/Wallpaper

You can choose between 2 (TBD) pictures to be displayed as a background to the standby screen, as follows: (TBD)

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 2 2** for the Wallpaper screen to display.
- ☛ Use the ▲ and ▼ keys to scroll to a wallpaper and press Softkey 1 to view the selected wallpaper.
- ☛ Press **Softkey 1** to accept the current setting and return to the wallpaper list. A ✓ displays on the appropriate icon.

Color Themes

You can select from 8 different color themes for your phone's display, as follows:

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 2 3** for the Color Theme screen to display. The current color style selection is highlighted.
- ☛ Use the ▲ and ▼ keys to scroll through the color list. The screen changes color to match the highlighted color scheme.
- ☛ When the desired color style is highlighted, press the **Select** key or press the corresponding number of the desired color style. The Settings Menu screen displays in the selected color style.

Contrast

To alter the contrast of your phone's display screen, proceed as follows:

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 2 4** for the Contrast screen to display.
- ☛ Use the ▲ and ▼ keys to adjust the contrast setting or press **1** (lightest contrast) to **9** (darkest contrast) on the keypad. The contrast displays as the setting is changed.
- ☛ Press **Softkey 1** to select the current setting or the **CLR** key or **Softkey 2** to cancel the setting and return to the Screen Settings menu.

Any Key Answer

If this feature is active, your phone connects to an received call by pressing any key (except the **END** key or **Softkey 2**). When this feature is turned OFF, the phone only connects to an received by pressing the **END** key or Softkey 1. To set up how you want to answer received calls, proceed as follows:

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 1 3 1** to activate the any key answer feature and return to the Phone Settings menu. A box surrounds the option number beside the Anykey Answer option.

To deactivate the any key answer option:

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 1 3** to display the Answer Options menu.
- ☛ Use the ▲ and ▼ keys to scroll through answer options and press the **Select** Key when the appropriate option is highlighted or simply press the number corresponding to the answer option and return to the Phone Settings menu.

 Pictures are down loadable (see page 54).

	Answer Option
1	Anykey Answer
2	SEND key answer
3	Quick Silent

Auto Redial

With this feature ON, your phone will try up to 10 times to redial a number if the first attempt fails. A tone is heard at each redial attempt. The failure to connect a call can be due to network problems or if the other phone is busy. Pressing **Softkey 2** during a redial attempt aborts dialing. To set redial ON or OFF, proceed as follows:

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 3 3** for the Auto Redial screen to display.
- ☛ Use the ▲ and ▼ keys to highlight the redial option and press the **Select Key** or press **1** to have the auto redial feature ON or press **2** to have auto redial feature OFF and return to the Call Settings menu.

Language Setting

Your phone can display the menus and other information in a number of languages. To set the language that you prefer to use, proceed as follows: (TBD)

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 2 6** for the Language screen to display.
- ☛ Use the ▲ and ▼ keys to highlight the language option and press the **Select Key** or press the number corresponding to the language option and return to the Screen Settings menu.

Language	Key
English	1
Spanish	2
French	3

Reset Factory Settings

This function reverts your phone back to its factory settings:

- ☛ To access the Main Menu, press **Softkey 1**. Press **1 7** for the Reset Settings screen to display.
- ☛ Use the ▲ and ▼ keys to highlight the restore option and press the **Select Key** or press the number corresponding to the restore option and return to the Settings menu.

ⓘ Your phonebooks and call lists are unaffected.

☞ **By restoring the factory settings, any changes you have made to your phone's set-up will be lost. An example of some of these settings are as follows:**

Ringer volume
Ringer type
Ring style
Mode settings
Backlight

ⓘ A prompt displays to ensure that you want to restore the factory settings before deleting all the settings that you have made.

ⓘ You must go into the phonebook or call list menus to delete any entries.

Messages, Email, & Voice Mail

Messages Overview

Bearer type

(TBD)

Message Folders

(TBD)

Email

(TBD)

Voice Mail

(TBD)

Storing, Retrieving, & Editing Numbers

Phonebooks

Your phone can have up to 4 options within the phonebook stored in the phone:

- Personal directories (ADN) in SIM
- Personal directories (ADN) in your phone's memory
- Fix dialing numbers (FDN)
- Service dialing numbers (SDN)

A fifth option, Complete, is available for viewing purposes only and provides a list of all the numbers stored in the other phonebooks (Phone, SIM, FDN) except the SDN numbers. The factory default setting is the complete phonebook, which displays the first time that you press the  key.

 To display one of the other phonebooks, press the  key till the desired phonebook displays. The name of the type of phonebook list displays at the top of the list.

The next time you press the  key from the idle standby screen, the phonebook that displays is the last one selected for use and exited out of to return to the standby screen.

Personal Directory (ADN)

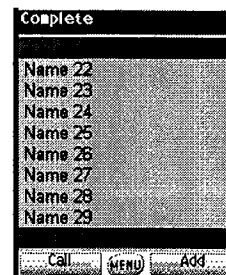
The personal directory numbers are known as abbreviated dialing numbers (ADN). Up to 255 numbers can be stored (along with only one name for each number) on your SIM (depending on your SIM card capacity). Up to 700 numbers can be stored along with a name, ring tune, LED color and a phonebook picture in your phone's memory. The phone memory also allows you to store 7 phone numbers, 2 email addresses and 5 fields of descriptive information against one name. You can also place names in your phone memory into groups to simplify searching. The numbers from either of these personal phonebooks can be viewed, altered and called whenever you wish. Up to 10 phone memory number can have a voice tag allocated to them, enabling you to recall these numbers from the phonebook by voice activation.

Fixed Dialing Numbers (FDN)

Fixed dialing numbers are a means of limiting which numbers can be called from your phone. With the FDN feature turned ON (see page 32), only numbers you have stored in the FDN phonebook and the emergency number can be called from your phone.

Service Dialing Numbers (SDN)

The numbers stored in the SDN phonebook are supplied, ready to use, and installed by your service provider. The SDN phonebook will call numbers and services as agreed with your supplier (e.g. Customer enquiries, billing information, sports lines, weather lines, etc.) and cannot be edited by you. You will not be able to see the number that is dialed; only the associated text title.



 The phone number of the highlighted name displays at the lower bottom of the screen.

 When viewing any of the directories described, you can switch to the other directories (if your SIM card supports them) by using the  key.

 The procedures for storing, calling, altering and deleting these numbers are detailed from page 36 onwards.

 The maximum number of phone numbers that can be stored on a SIM card is shared between the ADN, FDN, and SDN directories.

 Although FDN is supported by your phone, it must be present on your SIM. Check with your service provider.

 Although SDN is supported by your phone, it must be present on your SIM.

Call Records

There are 3 call lists in your phone's memory:

- Missed calls
- Received calls (Incoming)
- Dialed calls (Outgoing)

These lists contain the last 10 calls of each type. As a new call is added to a list of 10, the oldest call is removed. To view these call lists, proceed as follows:

- ☛ Press **Softkey 1** and **7** for the Call Records menu to display.
- ☛ Press **1** to display the last call, **2** for the missed calls list, **3** for received calls list, or **4** for the dialed calls list.
- ☛ Use the **▲** and **▼** keys to highlight a number in the list and press **Softkey 1**.
- ☛ Press **1** then **Softkey 1** to call the number or **2** then **Softkey 1** to store the number in your phonebook (see page 36 for details on storing a number).
- ☛ To clear the currently displayed list, press the **CLR** key.

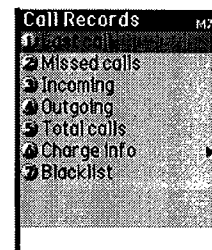
To access the call lists using a single key,

- ☛ Press the **◀** key to access the received call (incoming) list.
- ☛ Press the **▶** key to access the missed call list.

Setting the Primary Phonebook

Phone list is the default setting for the primary phonebook. Either the phone memory or SIM memory can be set to be the primary phonebook as follows:

- ☛ Press **Softkey 1 1 7** for the Phonebook Setting screen to display.
- ☛ Press **1** to set the phone memory or **2** to set the SIM memory as the primary phonebook. The selected option displays with a box around the option number.



☛ A quick way to view the received and dialed call lists from the standby screen is to press **◀** for received call list (Incoming) or **▶** for dialed call list (Outgoing).

☛ If you insert a SIM card other than your own, information such as call logs may be lost.

☛ To redial the last number you called, press the **☎** key twice.

Storing Numbers & Names in Phonebook

There are two types of phone number entry screens:

- Blank
- Number pre-loaded

Blank Entry Screen

To display a blank entry screen, proceed as follows:

- ☛ With no number entered into the idle standby screen, press the  key to access the phonebook list or press **Softkey 1** to access the Main Menu and press **5** to access the phonebook list. Press the  key until the desired phonebook displays.
- ☛ For the first phone number entry to a phonebook (phonebook has no data entries), press **Softkey 1** for the Add New screen to display. After a phonebook has record data, press **Softkey 2** for the Add New screen (blank entry screen) to display.

Number Pre-loaded Entry Screen

A number can be pre-loaded into the name/number entry screen by keying the required number into the standby screen and pressing the  key, or by selecting the 'Copy to phonebook' option (**2**) in any call record list (see page 35), or by selecting the 'Entry phonebook' option (**4**) from a received message (TBD).

Storing

- ☛ With the name/number screen displayed (either blank or pre-loaded), scroll to the name field. With the name field highlighted, press **Select** key to display the Text Editor screen. Key in the name to associate with the phone number you wish to store (see page 45 for text entry details) and press **Select** key to return to the Add New screen.

If the screen was blank when entered, press  to highlight the number field and press **Select** key to display the Text Editor screen. Key in the phone number you wish to store and press **Select** key to return to the Add New screen. Press **Softkey 1** to save the new record.

If the correct number has been pre-loaded, press **Softkey 1**. The Choose location screen for the phonebook type selected displays.

- ☛ If you wish to select other available phonebooks, press the  key until the required phonebook type is displayed at lower left of the screen. If you select the FDN directory you will have to enter your PIN 2 code to continue (for security code details, see page 56).
- ☛ To store the number in the next available location of the selected phonebook, press **Softkey 1** to save the record. To store the number in a specific location, key in the location number required. If the location is already in use, you will be prompted to press **Softkey 1** to confirm the replacement.

If you are entering the number into the phone memory, a menu displays to offer alternative number types to choose from. Press the appropriate key to select the required phone number type (see table right)..

- ☛ Press **Softkey 2** to return to the phonebook menu or  to return to the standby screen.

 If you have entered the number in the phone's memory, you have the ability to personalize the entry by allocating a specific ring tune, an LED color, a phonebook picture, adding the number to a group, etc. (see page 38).

 If the number displayed in the standby screen is already in your phonebook when the  key is pressed, that entry displays.



Phone Number Type	No.
Home	1
Mobile	2
Work	3
Data	4
FAX	5
Spare 1	6
Spare 2	7

Recall Stored Numbers

The phone numbers in your personal phonebook can be located and then called using one of the following methods:

Alphabetical List

- Press key or **Softkey 1 5** to display the last viewed phonebook numbers in alphabetical order. To change phonebooks (e.g. from phone memory to SIM), press key. The entries in the other personal phonebook display.
- Use the and keys as appropriate to scroll through your directory or hold them down to scroll a page at a time. To jump directly to names starting with a specific character, press the appropriate number key (e.g. press **5 (JKL)** once to jump to names beginning with J or twice to jump to names beginning with K). To jump to a name beginning with specific letters, press the appropriate number keys for the first few letters of the desired name.
- When viewing the phone record, use the and keys to display the other number types within a record (home, mobile, work, etc.).
- Cycle through the phone numbers and email. When an email address displays in the help/clue line, press **Softkey 1** to create an email to send (see page 23) to the email address.
- To call the phone record number type that displays in the help/clue line, press **Softkey 1** and the number is called.

Memory Location List

- Press key for the Phonebook Options menu. If you are in the Phone list, press **4** or if in FDN or SIM, press **3**. The phonebook contents display in location order (location 1 first).
- Use the and keys as appropriate to scroll through your directory or hold them down to scroll a page at a time.
- When viewing the phone record, use the and keys to display the other number types within a record (home, mobile, work, etc.).
- Cycle through the phone numbers and email. If email address displays in help line, press **Softkey 1** to create an email to send (see page 23) to the email address.
- To call the phone record number type that displays in the help/clue line, press **Softkey 1** and the number is called.

Search by Group

From a Complete or Phone list phonebook (Group list is not available from the SIM or FDN phonebook),

- Press key to display the Phonebook Options menu. Press **3 3** for the Group list to display.
- Use the and keys as appropriate to scroll through the Group list or hold them down to scroll a page at a time. When the required group name is highlighted, press **Select** key or **Softkey 2** to display the names of the entries in the selected group.
- Use the and keys as appropriate to scroll through the names or hold them down to scroll a page at a time.
- When viewing the phone record, use the and keys to display the other number types within a record (home, mobile, work, etc.).
- To call the phone record number, press **Softkey 1**.

To set the primary phonebook, see page 35.

If the FDN function has been set to ON (see page 55), only numbers in the FDN directory can be called.

To call numbers in the SDN directory, press the key until the SDN directory is displayed and then use either the scrolling or searching method to locate and call the number.

Up to 10 phone memory entries can be recalled by using the voice activation feature.

See page 40 for creating a voice tag and recalling one of these entries.

Editing or Personalizing Phone Memory Numbers

The edit menu enables any phone number stored in the phone's memory to be edited and have additional information/attributes added to the number. Ten numbers are allowed to have a voice tag attached to the record. The edit menu allows phonebook entries to be deleted, copied, or moved between the phone memory and SIM memory or FDN memory.

Access the Options Menu

- Press  key until the desired phonebook displays: Complete, Phone, SIM, or FDN.
- When the desired phonebook record (name or number) is highlighted, press the  key to display the Phonebook Options Menu and press 2 to access the edit mode.

SIM Memory Edit

The edit function can be used to alter the existing information in a SIM memory record as follows:

- When a SIM memory record has been accessed for editing purposes, there are only two fields to edit: the name field and number field. Highlight the name or number field to be edited and press **Select** key to display the Text Editor screen.
- Use the text editing feature (see page 45) to make any changes necessary to the name or number and then press **Select** key to return to the edit mode screen. Press **Softkey 1** to save the changes.

Phone Memory Edit

The edit function can be used to alter any of the existing information in a phone memory record, and, in addition, the following attributes can be added to a record:

- Add further phone numbers (home, work, mobile, etc.)
- Add 2 additional e-mail addresses
- Add personal information into 2 information fields
- Allocate the phone number to a group
- Ungroup the phone number
- Add a voice recall recording (10 entries only)
- Allocate one of the seven LED colors
- Allocate a phonebook picture
- Allocate a ring tune

To edit or add attributes to a phonebook record, proceed as follows:

Editing Existing Phone Memory Information

- With the required phone record details displayed in the edit mode, use the  and  keys to highlight the field to be edited and press **Select** key to display Text Editor screen or press **Softkey 2** to return to the phonebook.
- Make the necessary changes (see page 45 for editing procedures) and press **Select** key to return to the previous screen and re-display the phone details. Press **Softkey 2** to return to the edit menu without any changes or  to return to the standby screen.

 The Phonebook Options Menu varies for each type of phonebook: Complete, Phone, FDN, and SDN.

Adding Phone Numbers, E-mail Addresses & Personal Information

- ☛ With the required phone record's details displayed in the edit mode, use the ▼ and ▲ keys to highlight the title of the field you wish to add information to and press **Softkey 1** to display the Text Editor screen.
- ☛ Add the required number or information to the selected field (see page 45 for text entry procedures) and either press **Softkey 1** to return to the phonebook details list.
- ☛ Use the ▼ and ▲ keys to enter the next field to be added/changed and press **Softkey 1**. Make the necessary changes and press **Softkey 1** to return to the phonebook details list.
- ☛ Press **Softkey 2** to return to the edit menu or ⏏ to return to the standby screen.

Creating a Group Name

There are 35 group headings available to allocate phone numbers to (including 'No group'). The groups that can have their names edited are called Group1 to Group 34. To change these names to be representative of the phone numbers that are to be allocated to them, change group names as follows:

- ☛ Press **(MENU) 3**. The list of group names is displayed.
- ☛ Use the ▼ and ▲ keys to highlight the group name you wish to change and press **Softkey 1**. The group name edit screen displays.
- ☛ Use the text entry procedure (see page 45) to enter the required name and press **Softkey 1**. The group list re-displays. Either select another group name to alter and repeat the above procedures or press **Softkey 2** to return to the phonebook menu.

Add a Phone Record to a Group

To make it easier to search for numbers, it is possible to create a group name (see above), e.g. work, golf, family, etc. and then allocate numbers to the group. To do this, proceed as follows:

- ☛ With the required phone record's details displayed in the edit mode, use the ▼ and ▲ keys to highlight the group field and press **Select**. The group name list displays..
- ☛ Use the ▼ and ▲ keys as appropriate to scroll through the list. When the required group name is highlighted, press **Select** key to add or move the name/number to the selected group.

If moved, a confirmation screen displays. Press Softkey 1 to confirm the move.

- ☛ Press **Softkey 1** to save the editing and return to the edit menu or ⏏ to return to the standby screen.

Ungroup a Phone Number

(TBD) If you wish to remove a number from a group, proceed as follows:

- ☛ With the required phone record's details displayed in the edit mode, use the ▼ and ▲ keys to highlight the group field and press **Select** key. The group name list displays.
- ☛ Use the ▼ and ▲ keys to highlight 'No group' and press **Select** key. The phone record details re-display.
- ☛ Press **Softkey 1** to save the editing and return to the edit menu or ⏏ to return to the standby screen.

Add a Voice Tag

(TBD)

Playing a Voice Tag

(TBD)

Editing/Deleting a Voice Tag

(TBD)

☛ *The first option in the Group List name is 'No group.'*

Allocate an LED Color

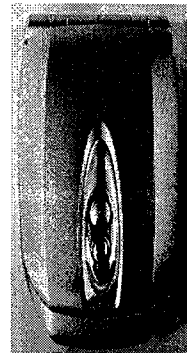
If you wish the LED to flash a certain color when a particular phone number calls your phone, proceed as follows:

- ☛ With the required phone record's details displayed in the edit mode, use the ▼ and ▲ keys to highlight the color field and press **Select** key.
- ☛ A menu list of the LED colors displays. Select the number 1 to 7 that corresponds to the desired color or use the ▼ and ▲ keys to highlight the LED color required (as each color is highlighted, an example displays by the LED - see right) then press **Softkey 1** to make your selection. The phone record details re-display, showing which LED color has been allocated.
- ☛ Press **Softkey 1** to save and return to the edit menu or ⏮ to return to the standby screen.

Allocate a Phonebook Picture

To display one of the 10 phonebook pictures stored in your phone when a particular phone number calls you, proceed as follows:

- ☛ With the required phone record's details displayed in the edit mode, use the ▼ and ▲ keys to highlight the picture field and press **Softkey 1**. The phonebook picture list displays.
- ☛ Press **Softkey 1**. The first phonebook picture and its title displays.
- ☛ Use the ▼ and ▲ keys to scroll the phonebook pictures in turn and when the required picture is displayed, press **Softkey 1**. The phone record details re-display, showing a phonebook picture has been 'set'.
- ☛ Press **Softkey 1** to save and return to the edit menu or ⏮ to return to the standby screen.



☛ Phonebook pictures can be uploaded to a special NEC web site or Network Service Provider web site and then downloaded to your phone (see page 54).

☛ A phonebook picture can be allocated to more than one phone record.

Allocate a Ring Tune

If you wish a specific ring tune to sound when a particular phone number calls your phone, proceed as follows:

- ☛ With the required phone record's details displayed in the edit mode, use the ▼ and ▲ keys to highlight the tune field and press **Softkey 1**.
- ☛ The list of tunes display with a ✓ next to the current tune.
- ☛ Use the ▼ and ▲ keys to highlight the required tune. Press Softkey 2 to play an example of the highlighted tune. Press **Select** key to return to the phone record details with the tune title in the tune field.
- ☛ Press **Softkey 1** to save and return to the edit menu or ⏏ to return to the standby screen.

Deleting a Single Phonebook Record

- ☛ When any phonebook record is highlighted, press the **(MENU)** key to display the edit menu.
- ☛ If in the Phone memory, press **6**. If in the SIM or FDN phonebook, press **5**. If in the Complete phonebook, press **4**. The confirmation screen displays.
- ☛ Press **Softkey 1** to delete the record or **Softkey 2** to cancel the action.

Move/Copy a Record Between Locations and/or Phonebooks

To move or copy a phone record from one location to another within a phonebook or from the phone memory phonebook to the SIM phonebook (or vice versa), proceed as follows:

- ☛ When any phonebook record is highlighted, press the **(MENU)** key to display the edit menu.
- ☛ Press **3** to copy a record or **4** to move it. The enter location screen displays.
- ☛ To move/copy the record to the new location suggested, press **Softkey 1**.

To move/copy the record to another location within the same phonebook, key in the location required and press **Softkey 1**. If the location is already in use, you will be prompted to press **Softkey 1** to confirm the replacement.

To move/copy the record to another phonebook, press the **↔** key until the required phonebook is displayed. The Enter location screen for the selected phonebook will be displayed. To move/copy the record to the location suggested, press **Softkey 1**. To move/copy the record to another location, key in the location required and press **Softkey 1**. If the location is already in use, you will be prompted to press **Softkey 1** to confirm the replacement. The record details display.

- ☛ Press ⏏ to return to the standby screen.



If a record is moved/copied from the phone memory to the SIM memory, the name is truncated to the number of characters allowed by your SIM and you will be requested to select which number in the record you wish to move or copy.

If a record is moved/copied from the SIM memory to the phone memory, you are prompted to enter the phone number type before the record is stored (see page 38).

Copy to Phonebook

(TBD)

Delete All Phone Records

To delete all phone records in your phone memory only (Phone), proceed as follows (TBD):

- Press **MENU** key **5**. A deletion confirmation screen will be displayed.
- Press **Softkey 1** to delete all the phone records, or **Softkey 2** to cancel the operation.

Scratchpad number

Your phone has a scratchpad feature that enables you to take down a telephone number during a call and then make a call to it when you have finished. This scratchpad number can be stored in memory for future use.

Noting & Calling a Scratchpad Number

- During a call, key in the number to be placed in the scratchpad. The number displays on your phone's screen.
- Press the **END** key when the call is finished. The number still displays. Press the **CALL** key. The number showing on the screen is called.

Storing a Scratchpad Number

- With the scratchpad still displayed, press the **EDIT** key to display the Text Editor screen.
- Key in the name and press **Select**. Press **Softkey 1** to save the name entry. The location screen displays.
- To store the number in the next available location, press the **Softkey 1**. To store the number in a specific location, key in the location number required and then press **Softkey 1**.



When records are copied from the phone memory to the SIM memory, the name is truncated to the number of characters allowed by your SIM and, if a single record is being copied, only the first phone number in the record is stored. If a multiple copy is carried out to the SIM, each number will be allocated a location.

When records are copied from the SIM memory to the phone memory, the SIM number becomes the home number in phone memory.



The Delete all phone records feature is not applicable to the SIM, FDN, and Complete phonebook memory.

Information Numbers

(TBD)

Edit Your Own Phone Number

To edit your own number, proceed as follows:

Add Your Own Phone Number

- Press **Softkey 1** and **1 6**. Your own number displays.
- Use the **CLR** key to delete individual characters or hold it down to delete all characters and then use the keypad to enter the correct number.(TBD)



Information numbers are available only if they are supplied by your service provider.



If your own number has not been previously entered, a blank screen displays.

Text Entry and Number Editing

This section describes how you enter text (letters, numbers and symbols), your own phone numbers and modify phone numbers when required. (

TBD)

Text Entry

(TBD)

Normal Text

T9 Text Entry

Phone Number Editing

(TBD)

DRAFT

Selecting Features

Menu Types

The top level menus are:

- Main (press **Softkey 1** in standby to display the Main Menu icons)
- Options (press **MENU** when the **MENU** icon displays at the bottom of your phone screen.
- Modes (press the **▲** key with your phone in standby to display the Phone Modes menu)
- Voice (press the **▼** key with your phone in standby to display the Voice Memo menu)

The main menu has a set of icons for top levels of options (examples of the top level are shown right) which can be selected either using a combination of the 4-way navigation key and **Select** (menu selection), or the keypad (menu shortcut selections).

The main menu icon numbers represent the following options:

1 Phone Settings	4 Internet	7 Call Records
2 Messages	5 Phone book	8 Applications
3 Clock	6 My downloads	



Menu and Option Selection

When using the icon menu method to select a feature, use the 4-way navigation keys **◀ ▶ ▲ ▼** to highlight the required icon and then confirm your choice by pressing **Select**.

When an option list is displayed, use the **▲** and **▼** keys to move the highlight bar to be over the desired option, and press **Select**.

The currently selected option is marked by a **✓** if the options are not numbered or a box around the option number if the options are numbered. Press **Select** for the highlighted option to become the selected option.

Menu Shortcut Selection

The alternative 'shortcut' method of selection lets you jump straight to a menu or function without highlighting an icon and then scrolling through the intermediate menu options. The selections are made by pressing numbers on the keypad which relate to the displayed menu's options.

Shortcut Selection Examples

Using the shortcut selection method, setting the Any answer key feature ON or OFF is carried out as follows:

☎ Press **Softkey 1** and **1 1 3 1**

Using the shortcut selection method, bringing up the calculator function is carried out as follows:

☎ Press **Softkey 1** and **1 8 1**

☞ When a main menu icon is highlighted, the icon graphic becomes animated and the menu name displays in the lower left above the softkey button.

☞ Certain menu options are not accessible during a call. These options are greyed out.

☞ When a **✓** is shown over an option icon, it means this is an On/Off option which is set to ON.

☞ The current menu number displays in the top right-hand corner of any menu icon screen.

☞ Pressing the **Ⓢ** key briefly returns you to the standby screen (unless you are in the Service menu).

☞ The instructions in this user guide usually make use of the shortcut method.

☞ The final on/off options are selectable using the softkeys. The options display in the help area as appropriate.

Call and Charge Information

Call Information

View Calls

Press **Softkey 1** and **7** to access the Call Records menu. Press **1** to view last call information or **5** to view total call information.

Last Call

The last call screen displays the duration of the last call made on your phone. Press **Softkey 1** to go back to previous screen or **Softkey 2** to return to the call info menu.

Total calls

The total calls screen displays the duration of all calls made from your phone. Press **Softkey 1** to return to the call info menu or **Softkey 2** to reset the display to zero.

Charge Information

(TBD)

Advanced Use

International Dialing Codes (Plus)

When you make an international call from any country, you must start by dialing a special international access code. Your wireless phone has the feature to prefix numbers with a '+' symbol, which saves you entering the access code for the country that you are calling from. Your phone automatically dials the correct numbers for each country if you enter the '+' digit as follows:

Entering International Dialing Code Patterns

With the phone in standby, hold down **0**. The '0' character displayed changes to a '+' character.

You can then enter the country code, area code, and phone number that you wish to call. The UK country code is always 44, no matter what country you are dialing from. For example, to make an international call to a typical UK number is entered as:

+	44	1189	123456
International	Country	Area	Phone
Access	Code	Code	Number

Roaming

Roaming allows you to use your phone in many parts of the world and to pay all charges through your normal Service Provider. Your network operator usually has agreements with named networks in other countries. The phone also allows you to set network preferences of your own.

When dialing you will need to add the international access codes when required, so storing all numbers with the codes (such as 01 for the US) is helpful.

Set Automatic or Manual Network Selection

With the standby screen displayed, press **Softkey 1** for the Main Menu to display. Press **1 5 1** for the Network Settings Search Type screen to display. The automatic/manual menu is displayed with a box surrounding the option number of the current selection.

Press **1** to select automatic mode or **2** to select manual mode. Press **Softkey 1** to return to the network menu. (TBD)

View/Edit Network List

 Before editing your network list, please contact and consult with your service provider.

With the standby screen displayed, press **Softkey 1** for the Main Menu to display. Press **1 5 3** for the Network SIM list to display.

Use the **▲** or **▼** key as appropriate until the required network is highlighted and press **MENU**. Options key and the appropriate key to select the required action (see table right).

Action	No.
Move	1
Add	2
Remove	3

 Call your Service Provider to activate international service options.

 Before leaving your home country you should select any preferences such as call block or call transfer.

 You will be charged for calls forwarded to you while you are roaming.

 When your phone is set to manual mode, you will have to wait while the phone is searching for networks. If several network options are found, use the **▲** or **▼** key to scroll through the list.

 Before you manually select a network, ensure it is covered under the agreement you have with your service provider.

Move a Network

With the required network highlighted and the Network Options menu displayed , proceed as follows:

- ☛ Press **1** to return to the SIM list and move the selected Network within the SIM list
- ☛ Use the **▲** or **▼** key to move its position in the list and press **Softkey 1** to save the new location and return to the Network Settings menu. Press **Softkey 2** to cancel the location move and a discard changes confirmation screen displays.
- ☛ At the Discard Changes screen, press **Softkey 1** to discard the changes made and return to the Network Settings menu or press **Softkey 2** to cancel the discard and return to the SIM list.

Add a Network

With the Network Options menu displayed , proceed as follows:

- ☛ Press **2** to display the Add New Net screen.
- ☛ Input the location code and network code.
- ☛ Press **Softkey 1** to return to the SIM list with the new name displayed at the top of the list or press **Softkey 2** to cancel the new network and return to the SIM list with no new networks in the SIM list.
- ☛ Press **Softkey 1** to save the changes and return to the Network Settings menu or press **Softkey 2** to cancel the changes and a discard changes confirmation screen displays.
- ☛ At the Discard Changes screen, press **Softkey 1** to discard the changes made and return to the Network Settings menu or press **Softkey 2** to cancel the discard and return to the SIM list.

Remove a Network

With the required network highlighted and the Network Options menu displayed , proceed as follows:

- ☛ Press **3**. A remove confirmation screen displays. Press **Softkey 1** and return to the SIM list with the network name removed from the list or press **Softkey 2** to return to the SIM list with no changes made to the list.
- ☛ Press **Softkey 1** to save the changes and return to the Network Settings menu or press **Softkey 2** to cancel the changes and a discard changes confirmation screen displays.
- ☛ At the Discard Changes screen, press **Softkey 1** to discard the changes made and return to the Network Settings menu or press **Softkey 2** to cancel the discard and return to the SIM list.

*If you select a network to be added to your network list (option 2) but the list is full, you will have to use the **▲** or **▼** key to select the network to be replaced and then press **Softkey 1**.*

Phone Modes

(TBD)

Caller ID

When you make a call, you can send your own phone number to display on the called phone.

Press **Softkey 1** to display the Main Menu and press **1 3 4**. When the Send Own Number screen displays, press **1** to select on or **2** to select off and return to the Call Settings menu. A box surrounds the option number of the active option.

Conference Calling

If your SIM card is Multi-party enabled, you can make a conference call to more than one caller. You can even leave the call while the remaining participants carry on with the call. The phone supports 3-way calling and 6-way calling.

Call Forwarding

(TBD)

Call Waiting and Holding

(TBD)

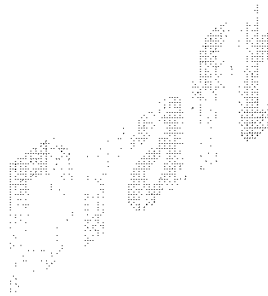
Service Menu

(TBD)

Voice Memo

(TBD)

Recording of phone calls is subject to varying State and Federal laws regarding privacy and recording of phone conversations.



Internet

What Can I Download?

Your phone supports the downloading of four different types of content:

- Ring Tunes
- Phonebook Pictures
- Standby screen pictures/wallpapers
- Animations

You can download NEC content or you can create your own content to download to your phone.

What Are Ring Tunes?

Ring tunes are the tunes your handset plays when you receive a call. The ring tunes are 40 polyphonic which means that up to 40 different sounds can be played at the same time giving an excellent sound quality.

What Are Phonebook Pictures?

A phonebook picture is a picture that you assign to a person in your phonebook. When that person calls or sends you a text message, the allocated phonebook picture appears on the phone showing you who is trying to contact you. The phonebook pictures can be downloaded to your phone and displays in 65,536 colors. Your phone can store a maximum of 10 phonebook pictures.

What Are Wallpapers?

Wallpaper is an image that displays as the background for your standby screen. A wallpaper picture can be downloaded to your phone and displays in 65,536 colors. Your phone can store a maximum of 2 wallpapers.

What Are Animations?

Animations are 10 frames long and are played when the phone is turned ON. An animation can be downloaded to your phone and displays in 65,536 colors. Your phone can store 2 animations.

NEC Web Site

The phone is supported by a web site at www.necfusion.com. Access this site from your PC and you can select content from the wide variety available. Tools are provided to help you create your own content both on and offline. At this web site you are able to import content. If you have electronic pictures in JPEG, GIF or BMP format, they can be imported and downloaded to your phone.

For example with your phone you can now have:

- A personal cartoon animation - when you turn the phone ON
- A picture of your last holiday - as your background wallpaper
- A picture of your friends or partner - when they call you
- High quality music - when you receive a call

Find all this and more at www.necfusion.com.

 To find out how to download ring tunes, phonebook pictures, wallpaper and animations, see page 54.

NEC Mobile Internet Site

Your phone is also supported by a mobile Internet site at www.necfusion.com. Access this site from your handset and you can select and download content from the wide variety available. So, you don't need a PC to take advantages of these great new services. (TBD)

Further Information

For more details visit www.necfusion.com.

Mobile Internet Setup

(TBD)

Setup

(TBD)

Adding Favorites

(TBD)

Editing/Deleting Favorites

(TBD)

Clear Cache

(TBD)

GPRS Auto Attach

(TBD)

Logging On to an Internet Site

(TBD)

Downloading

(TBD)

Security

The features outlined in this section enable you to protect your phone from improper and unauthorized use.

FDN Setting

Press **MENU** **7 7** then press **Softkey 1** to turn FDN ON or **Softkey 2** to turn it OFF.

You may be requested to enter your PIN 2 code to change the FDN setting.

Security Codes

You may be required to enter one of the five security codes (shown below). When the phone prompts you for one of these codes, use the keypad to enter the appropriate number and press **Softkey 1**.

- PIN 1 code (provided by your Network to protect your SIM card if it is stolen)
- PIN 2 code (provided by your Network for AoC and FDN services protection)
- PUK code (personal unblocking key in case you forget PIN 1 code)
- PUK2 code (personal unblocking key in case you forget PIN 2 code)

PIN 1 Code

Your phone can be set up so it needs your PIN 1 code entered at power up before the phone can be used at all. If the PIN 1 code is not entered, not even received calls can be answered. If you enter your PIN 1 code incorrectly more than three times (not necessarily in the same session) not even the correct PIN 1 code works and you will have to contact your service provider for a PUK code to unblock your SIM card.

Press **Softkey 1** to access the Main Menu and press **1 4 1** to display the PIN menu.

Changing Your PIN 1 Code

Press **Softkey 1** to access the Main Menu and press **1 4 1 1** to display the PIN 1 change screen.

Key in the current code. You are prompted to enter the new code and then to enter it again as confirmation. A confirmation screen displays momentarily and then the security screen displays.

See also: FDN storage on page 34.

The FDN facility is network dependant.

If you forget any of these codes, **ALWAYS** contact your service provider as they are the **ONLY** source for your codes.

The PIN 2 code is SIM card related and may only be available from your service provider.

Some SIM cards are set up so that PIN 1 number entry cannot be turned OFF.

PIN 2 code

Your phone supports advanced feature (e.g. FDN) that may require a PIN 2 code to be entered before they can be accessed or modified. If the PIN 2 code is entered incorrectly 3 times, you will need to contact your service provider for a PUK 2 code.

Changing Your PIN 2 Code

- Press  **MENU** **7 4**. The PIN 2 change screen displays.
- Key in the current code. You will be prompted to enter the new code and then to enter it again as confirmation. A confirmation screen displays momentarily and then the security screen displays.

Call Restriction

This feature allows you to restrict the following types of calls made or received on your phone.

- All outgoing
- International outgoing
- International outgoing except to home
- All received
- received if abroad

- Press  **MENU** key **1 4 3**. There will be a delay while your phone checks its barring status with your network and then the call restriction screen displays.
- Use the    and  keys to select the type of barring (shown above) and whether it should be for Speech, Data, FAX or SMS then press **Softkey 1**. When a selection has been made, the selected setting will have a red bar over its icon.
- When the setting has been made, press the  key and then enter your Network barring password.

Locks

(TBD)

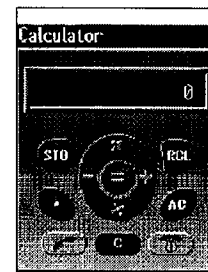


Call restriction feature (restrictions, canceling restrictions, and checking restrictions) are network services and may require a password.

Applications

Calculator

(TBD)



Scheduler

The scheduler allows you to enter reminders and appointments for particular times and dates (a total of 600 events).

Placing an Entry to the Scheduler

(TBD)

Viewing the Scheduled Events

(TBD)

Scheduler's Option Menu

(TBD)

Notepad

(TBD)

 Press **Softkey 1** to access Main Menu. Press **8 4**. The notepad displays.

To Do List

This feature allows you to set up to 300 To Do tasks that should be finished by a certain date. You can choose to display all To Do tasks, or just finished or unfinished tasks. Each task is identified by a description (of up to 32 characters) and its start due date.

Creating a To Do Task

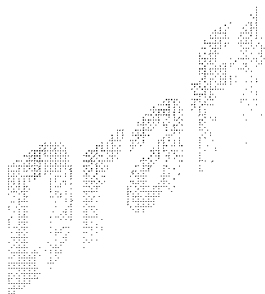
(TBD)

Viewing To Do Task Details

(TBD)

To Do Options Menu

(TBD)



Currency Converter

(TBD)

Draft

Games

(TBD)

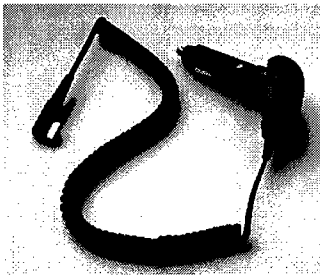
DRAFT

NEC Authorized Accessories

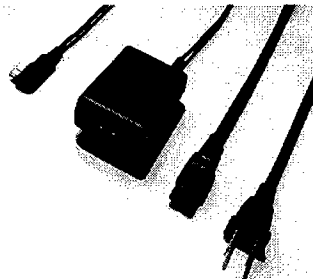
NEC recommends using only NEC Authentic Accessories™ with your wireless phone to ensure optimum quality performance.

The NEC AUTHORIZED accessories include the following:

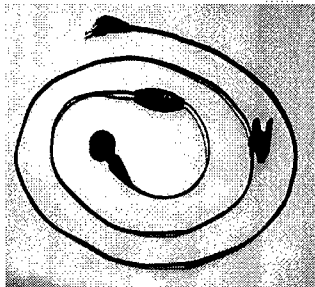
Cigarette Lighter adapter (Part Number 155-0546)



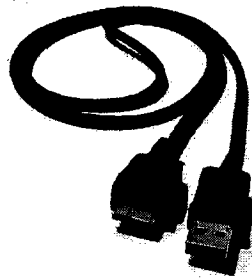
AC Adapter (Part Number 155-0541)*



Hands-free Headset (Part Number 155-0543)*



USB Synch cable (Part Number 204-0433)



* These accessories are included in the wireless phone package.

Look for the NEC Authentic Accessories™ logo to know if the item has been approved by NEC for use with the Fusion 515.



Not using NEC Authentic Accessories™ or not using NEC approved accessories may void your phone's warranty.

Warranty and Service

Limited Warranty

1. What products may be covered by this limited warranty?

The following products (the "Products" or the "Product") purchased through an NEC America, Inc. (NECAM) AUTHORIZED Dealer (the "Dealer") in the United States on or after December 1, 2002 may be covered by this warranty:

[NEC 515 WIRELESS PHONE]

2. What does this warranty cover?

NECAM warrants to the original end-user product purchaser ("You") that the Products will reasonably conform to the applicable published specifications in effect at the time of shipment from NECAM to the Dealer, and that the Products will be free from defects in materials or workmanship that result in product failure under normal use during the warranty period described in Paragraph 4.

3. When does your warranty begin?

The warranty period will begin on the date you purchase the product. Dated proof of purchase is necessary to accompany and product returned for warranty service consideration. Valid proof of purchase must identify the point of purchase, date of purchase, product model or trade name, and Electronic Serial Number.

4. How long does the coverage last?

The warranty period for the product is:

[ONE (1) YEAR]

Any products repaired or replaced under the terms of this warranty are covered under the warranty for the remainder of the original warranty period or ninety (90) days from the date of service return shipping, whichever is longer.

5. What will the manufacturer do if the product becomes defective in materials or workmanship during the warranty period?

If any product covered under this warranty becomes defective in materials or workmanship resulting in product failure during the applicable warranty period, NECAM will, at its option, either repair the defective product without charge for parts and labor, or provide a replacement in exchange for the defective Product.

6. What is not covered by this warranty?

(a) THIS WARRANTY DOES NOT EXTEND TO:

- (i) Products which have been subjected to misuse, accident, physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water, or other liquid intrusion, or;
- (ii) Damage caused by computer viruses.
- (iii) Products which have been damaged due to repair, altered, or modified by anyone other than an AUTHORIZED service warranty component-level representative of NECAM, or;
- (iv) Defects caused by components, parts, or accessories not compatible with the warranted Product, or;
- (v) Products whose warranty/quality labels, product serial number plates or electronic serial numbers have been removed, altered, or rendered illegible, or;
- (vi) Accessory items such as antenna, cables, curl cords, cases, etc., or;
- (vii) Products shipped to NECAM for repair from outside the United States.
- (viii) Defects in appearance, cosmetic, decorative, or structural items including framing and non-operative parts.

- (b) ANY OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS YOUR SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
- (c) NECAM'S TOTAL LIABILITY FOR DAMAGES FOR ANY CAUSE RELATED TO OR ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, WHETHER IN CONTRACT, NEGLIGENCE, STRICT TORT, OR BASED ON ANY OTHER LEGAL THEORY, SHALL NOT EXCEED THE ORIGINAL PRICE PAID FOR THE PRODUCT LESS A REASONABLE AMOUNT FOR USAGE.
- (d) IN NO CASE SHALL NECAM BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF PROFITS, LOSS OF SAVINGS OR REVENUES, INABILITY TO USE THE PRODUCTS OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, CLAIMS BY THIRD PARTIES OTHER THAN YOU, AND INJURY TO PROPERTY. THESE LIMITATIONS DO NOT APPLY TO CLAIMS FOR PERSONAL INJURY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.
- (e) THE REMEDIES CONTAINED HEREIN ARE YOUR SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY.

7. How do you get warranty service?

If your product requires warranty service, it must be returned to an NEC AUTHORIZED Service Center with shipping paid by You, along with a description of the Product malfunction or difficulty. You are required to substantiate warranty status with a dated proof of purchase (as explained in item #3), inclusive of Product's serial number (if applicable). The address of the nearest NECAM AUTHORIZED Service Center may be obtained by calling (800) 637-5917, or by writing to: NEC America, Inc., Attention: Service Support & Administration, 6555 N State Hwy 161, Irving, Texas, 75039 9 email Support@necwireless.com. NECAM assumes no risk for damage or loss in transit.

If, in NECAM's sole opinion, the Product failure is not covered under this warranty, or proof of purchase does not meet the terms of this warranty, you will be notified and your authorization will be requested for any further repair activity. Products repaired under warranty will be returned to you, transportation prepaid. In all other cases, you will be required to pay return shipping costs.

8. How does state law apply to this warranty?

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

9. This warranty is the entire agreement.

Unless modified in writing, signed by both You and NECAM, this warranty is understood to be the complete and exclusive agreement.

NEC Service Support

NEC Service Support can assist you with any additional information that you may need in the operation your NEC cellular telephone and NEC Authentic Accessories™. Contact NEC Service Support at the following (The 800 number listed provides access to NEC Repair Service and Parts Sales):

Telephone:	Writing:	Email:	Website:
1-800-637-5917	NEC America, Inc. Service Support 6555 N State Hwy 161 Irving, Texas 75039-2402	support@necwireless.com	www.necwireless.com

To locate the nearest retailer, contact 1-800-255-5664 or send an email to: sales@necwireless.com

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Cellular Telecommunications Industry Association (CTIA) Driver Safety Tips

Your wireless telephone gives you the powerful ability to communicate by voice almost anywhere, anytime whenever wireless phone service is available and safe conditions allow. However, an important responsibility accompanies the benefits of wireless phones, on that every user must uphold.

When driving a car, driving is your first responsibility. If you find it necessary to use your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an received call at an inconvenient time, if possible, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions: rain, sleet, snow, ice, and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, and then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or the local emergency number in the case of fire, traffic accident, or medical emergency.*
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress, or other serious emergency where lives are in danger, call 9-1-1 or the local emergency number, as you would want others to do for you.*
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.*

* Wherever wireless phone service is available.

Check the laws and regulations on the use of wireless telephones and in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas.

"The wireless industry reminds you to use your phone safely when driving"

For more information, please call 1-888-901-SAFE, or visit the CTIA website, www.wow-com.com