

## DTMF Tones

Dual tone multi-frequency (DTMF) tones are used to send digital signals to over-the-phone automated services that allow access to information or accounts, e.g., use a specific language, access to specific information, account number and password to financial accounts, voice mail, etc. These DTMF tones may be annoying during multi-party calls. You can turn DTMF tone Off to be considerate so that the participants do not hear these tones when you input the number of another participant. The tones can only be sent when a call is connected.

To turn DTMF tones Off from the Call in progress screen (during a phone call):

☛ Press **MENU** (Options Menu), **7**, and **2**.

To turn DTMF tones On:

☛ Press **MENU** (Options Menu), **7**, and **1**.

## New Call

The associated parties will hear the DTMF tones while you dial another person. Use the instructions in the previous topic to turn Off the DTMF tones. When the new call is connected, the original call is automatically placed on Hold.

To dial a new call while in a multi-party call,

☛ Press **MENU** (Options Menu) and **3** to display the Dialer screen.  
Input the phone number and press ☛ (Send) to connect to the number.

## Conference Calls

If your SIM card is multi-party enabled (the Network supports conference calling), you can make a conference call to more than one caller. The 3-way and up to 6-way conference call depends on the network service provider. Extra fees may apply for conference calls.

The associated parties will hear the DTMF tones while you dial another person to add to the conference. Use the instructions in the previous topic to turn Off the DTMF tones. When the call is being dialed, the associated parties of the multi-party call are placed on mute and cannot hear the conversation until the new caller is added to the conference call.

You can leave the conference call while the remaining participants carry on with the call. (See Flag.)

A multi-party call is considered as one call in progress.

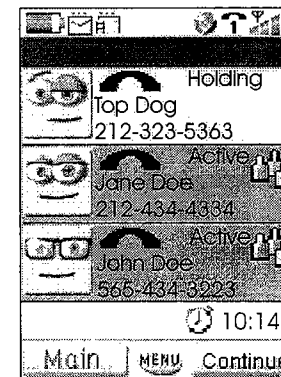
To use the 3-way conference call feature from the Call in progress screen with one call already in progress (first connected call):

☛ Input a phone number and press ☛ (Send) to connect a second call and automatically place the first call on hold. If the call is successful, the Call in progress screen displays showing the first call with on hold status and the highlighted second call with connected status.

Press **MENU** (Options Menu) and **5** to briefly display the busy screen and second party is added to the conference call.

To continue adding a third, fourth, and fifth party to conference calling (if Network supported), repeat the two steps of 3-way conference calling.

If adding a call to conference calling is unsuccessful, the failure screen displays briefly and the phone returns to the previous status.



*If you already have 2 calls in progress (whether active, on hold, or multi-party), a third incoming call can not be accepted because the **Softkey 1** (Accept) will not be displayed on the incoming call screen.*

*Do not press ⏹ (End/On-Off) to reject an incoming call if you already have 2 calls in progress.*

*Pressing ⏹ (End/On-Off) with 2 calls in progress does not reject an incoming call but will disconnect a call in progress.*

## Private Conversation

During a multi-party call, you can select one participant for a private conversation while the other participants continue the conference call. (See Flag.)

☞ Press ▲ (Up) or ▼ (Down) navigation key to highlight the participant.

Press **MENU** (Options Menu) and **6** to briefly display the busy screen for Private conversation and begin the private conversation.

Press Ⓜ (End) to end a private conversation and the call.

To end the private conversation and add the party back to the multi-party call:

☞ Press **MENU** (Options Menu) and **6**. This combines the two calls back into a single multi-party call and all members are active.

## Disconnecting a Party

During a multi-party call, you can disconnect one of the participants and continue the call with remaining participants from the Call in progress screen.

☞ Press ▲ (Up) or ▼ (Down) navigation key to highlight the participant to disconnect.

Press **MENU** (Options Menu) and **9** to disconnect the participant from the conference call.

## Recording a Call

You can record up to 20 seconds of a conversation. (See Flag.) A recorded conversation is stored in Voice memo (see page ). To record a received or dialed call from the Call in progress screen:

☞ Press **MENU** (Options Menu), **8**, and **Softkey 1** (record) to record. Press **Softkey 2** (Stop) to end recording before the 20 second time lapse.

At the end of 20 seconds, recording automatically stops and the Call in progress screen displays.

## IR Send/Receive

IR is short for infrared. The Infrared Data Association, a group of device manufacturers, developed a standard for transmitting data via infrared light waves through an IR port. The infrared port enables you to transfer data from one 525 wireless phone to another 525 wireless phone without any cables. The two wireless phones must be within a few feet of each other and there must be a clear line of sight between them. Data from the Phone phonebook, Scheduler, and To Do may be transmitted using the IR options.

☞ *Two calls are on the phone: the multi-party call and the active single call of the private conversation. The members of the multi-party call can still speak to each other on the one call while the private conversation is the other call.*

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

☞ *For further information regarding sending data via IR, refer to: Phonebook, IR Sending, page Scheduler, IR Sending, page To Do List, IR Sending, page IR Receive, page .*



IR Port

# Personalizing Settings

To access the Settings menu:

(TBD)

## Text Entry

Text entries for messages, Emails, phonebook names, task descriptions, notepad, field entries, etc. are input at the text editor screen.

At any highlighted entry field, press **○** (Select) to display the text editor screen.

To change the text entry mode between normal text (ABC), T9™ Text Entry (T9) or numeric entry (123), press **Softkey 1** (Mode). The text entry mode displays at the bottom of the display screen above the Softkey 1 indicator.

To toggle between lower case, shift **↑** (upper case for one letter and returns to lower case text entry) and caps lock **⇧** (permanent upper case), press the **\*** (Asterisk Symbol). Shift and caps lock display on the screen above the Softkey 2 indicator.

To toggle the active symbol mode On and Off, press the **#** (Number Symbol). There are three different symbol tables available on the next page. The symbols are special characters, symbols, and punctuation available for text entry.

Press **MENU** (Options Menu) at the text editor screen to display text Options menu that allows you to select settings for text formatting and characteristics.

Press **◀** (Left), **▶** (Right), **▼** (Down), or **▲** (Up) navigation key to move the cursor within text. To remove unwanted characters, press **CLR** (Clear/Back) key. Remove a single character or space to the left of the cursor with the Clear Mode set as "Backspace" in Edit settings. Remove a single character or space to the right of the cursor with the Clear Mode set as "Delete" in Edit settings.

The maximum number of characters is defined as the number of single-byte characters (alphanumeric characters, etc.) allowed in a field/description. If a double or triple byte character such as a special symbol is used, the number of characters allowed will vary accordingly.

### Normal Text (ABC)

At the text editor screen, press **Softkey 1** (Mode) until the ABC appears above the Softkey 1 indicator. ABC text entry is also known as multi-tap entry. Each number key press contains more than one letter and successive presses are needed to obtain the desired letter.

Press a number key that contains the desired letter. The available characters for the pressed number key replace ABC above the Softkey 1 indicator until another number key is pressed.

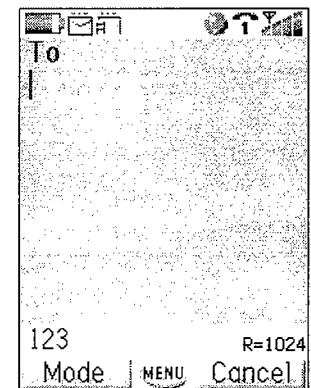
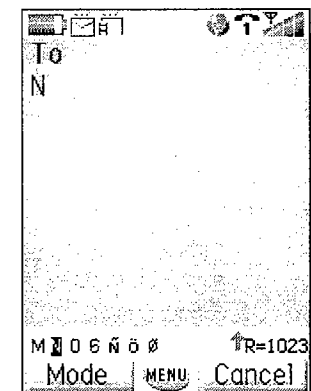
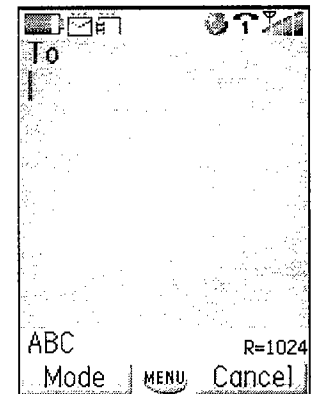
Successive presses of the same number key displays the next available character on the text editor screen.

With the required character displayed when entering normal (ABC) text, press **▶** (Right) navigation key to move to the next character position. If you wait for more than 1 second, the cursor moves one character to the right automatically.

Press **0** to create a space between words.

### Numbers

At the text editor screen, press **Softkey 1** (Mode) until the 123 appears above the Softkey 1 indicator on the display screen. Press the number keys to enter the desired number(s).



## T9 Text Entry

At the text editor screen, press **Softkey 1** (Mode) until the T9 appears above the Softkey 1 indicator on the display screen.

T9 text entry is fast, easy and intuitive text input. Press one key per letter in a word. The phone predicts or guesses what you are writing. For example, to enter the word "show," spell out the word by pressing four keys: 7, 4, 6, and 9. T9 text input recognizes that the most commonly used word matching that numeric entry sequence is "show."

If more than one word shares the same numeric entry sequence, the most commonly used word displays highlighted. The number of available words (for example, 1 of 11) displays beside the T9 above the Softkey 1 indicator. If the highlighted word is not the desired word, press **Softkey 1** (Prev) or **Softkey 2** (Next) until the desired word displays.

Press **0** to insert a space after a word.

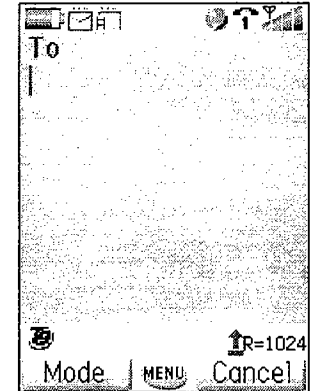
If the T9 word list does not contain the desired word:

Enter any characters till **Softkey 2** (Next) indicator on the display screen changes to **Softkey 2** (Spell?).

Press **Softkey 2** (Spell?) to change the text editor into Spell mode. The text entry mode automatically becomes normal text entry (ABC).

Press **CLR** (Clear/Back) to delete unnecessary letters and input the characters for the new word.

Press **Softkey 1** (T9) to return to T9 text entry.

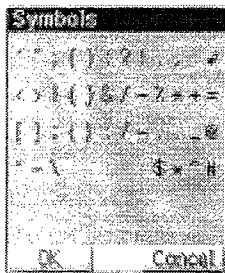


## Symbol Mode

In the symbol mode, the screen displays the available symbols (see the symbol screens below). Press the **#** (Number Symbol) key in text entry mode to turn On and Off the symbol mode. Press **◀** (Left), **▶** (Right), **▼** (Down), or **▲** (Up) navigation key to highlight the desired symbol and press **Softkey 1** (OK) or **○** (Select). The required symbol displays on the text editor screen.

Make sure that the cursor is positioned where you want to input the symbol. If a word is highlighted in T9 text entry, move the cursor to the end of the word. The symbol mode cannot be used if a word is highlighted.

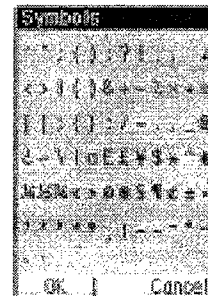
The symbol screen on the left is used by 2 fields: To and Cc fields of New Email. The symbol screen in the center is used by 9 fields and 3 text editor options: the To and Message fields of SMS; the To and Message fields of EMS; the To field of MMS; To, Subject, and Message fields of New Email-SMS; Enter address field for Go to webpage; the Edit Text of MMS Composer Options menu; the Add folder of Bookmark Options menu; and Edit title option of the S/W list menu. All other fields and text editor options use the symbol screen on the right.



Used for To and cc fields  
of New Email



Used by 9 fields and  
3 text editor options



Used by all other fields  
and text editor options

## Text Entry Options Menu

At any field to input information (except number fields), press **○** (Select) to display the text editor screen. An Options menu is available at the text editor screen that allows:

- Color, format, and alignment changes of the text.
- Highlight mode turned On and Off to copy, cut, delete a word, paragraph or all.
- Paste what is copied in the highlight mode.
- Create and insert canned text.
- Inserting a graphic from a provided list of emoticons.
- Inserting a sound, or picture from a provided list.
- Identify the T9 text entry language.
- Edit setting changes.

Not all of the menu options are available for all fields. An option is grayed out when it is not available for text entry.

### Text Color

At the text editor screen,

Press **MENU** (Options Menu) and **1** to display the Text Color screen.

Press **◀** (Left), **▶** (Right), **▼** (Down), or **▲** (Up) navigation key to highlight the desired text color or background color and press **○** (Select).

Press **Softkey 1** (OK) to save the changes or press **Softkey 2** (Cancel) to cancel the changes and return to the text editor screen.

### Text Format

At the text editor screen,

Press **MENU** (Options Menu) and **2** to display the Text Format screen.

Highlight the Font field and press **◀** (Left) or **▶** (Right) navigation key to cycle the font names.

Highlight the desired Text Format field and press **○** (Select) to check or uncheck the text format box.

Press **Softkey 1** (OK) to save the changes or press **Softkey 2** (Cancel) to cancel the changes and return to the text editor screen.

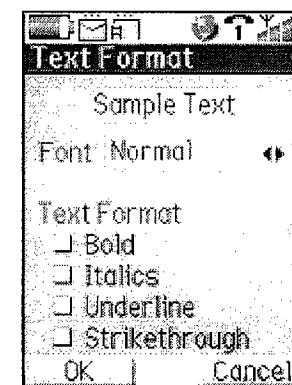
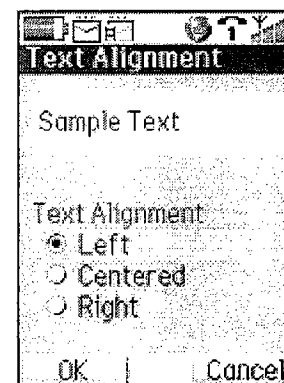
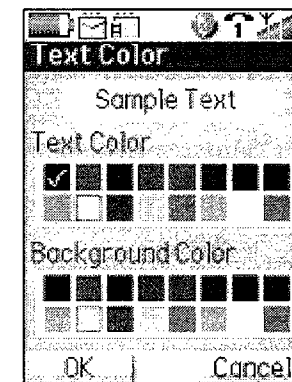
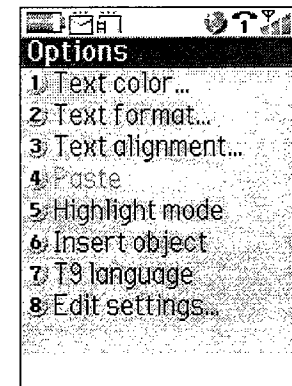
### Text Alignment

At the text editor screen,

Press **MENU** (Options Menu) and **3** to display the Text Alignment screen.

Highlight the desired Text Alignment field and press **○** (Select). Radio button for the field is On.

Press **Softkey 1** (OK) to save the changes or press **Softkey 2** (Cancel) to cancel the changes and return to the text editor screen.



## Text Paste

After selecting the text in the Highlight mode that was copied or cut (explained in the next topic), return to the text editor screen. At the text editor screen:

- Use the navigation keys to place the cursor where the text is to be inserted/pasted.  
Press **MENU** (Options Menu) and **4** to insert/paste the text.  
Continue with text entry.

## Text Highlight

Highlight mode provides an Options menu to:

- Change the text color or text format of selected text.
- Copy or cut selected text in highlight mode to be inserted/pasted (explained in previous topic) into the text editor screen.
- Delete selected text.
- Highlight a word, paragraph, or all text.

At the text editor screen,

- Press **MENU** (Options Menu) and **5** to display the text editor screen in Highlight mode.  
To move the cursor without highlighting, press **Softkey 1** (Off) turn Off the highlight mode. Once the cursor is positioned, press **Softkey 1** (On) to turn the highlight mode On. (See Flag.)

Press ◀ (Left) or ▶ (Right) navigation key to highlight the word(s) or paragraph(s) or position the cursor.

With the selected text highlighted (a word, paragraph, or all text), press **MENU** (Options Menu) to display the Highlight mode Options menu and input the corresponding number:

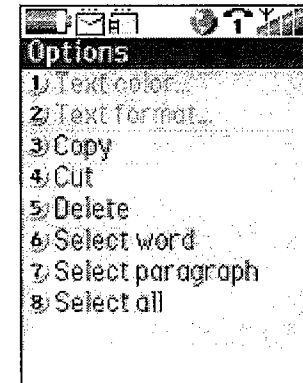
- 1** To change the text color of the selected text on the text editor screen.
- 2** To change the text format of the selected text on the text editor screen.
- 3** To copy the selected text.
- 4** To cut/remove the selected text where it is located on the text editor screen.
- 5** To delete the selected text from the text editor screen.

With the cursor positioned and highlight mode turned Off (the Softkey 1 indicator displays On), press **MENU** (Options Menu) to display the Highlight mode Options menu and input the corresponding number:

- 6** To highlight the word that the cursor is positioned within
- 7** To highlight the paragraph that the cursor is positioned within on the text editor screen.
- 8** To highlight all text on the text editor screen.

Press **CLR** (Clear/Back) to end highlight mode and return to the text editor screen.

Selected text (a word, paragraph, or all text) that has been copied or cut may be pasted within the same text editor screen, a new message, a new Email, or application description field (Scheduler, To Do, or Notepad). Follow the instructions provided in the previous topic Text Paste.




When the highlight mode is turned On, the Softkey 1 indicator displays Off. When the highlight mode is turned Off, the Softkey 1 indicator displays On. Use **Softkey 1** to toggle highlight mode On/Off.

## Text Object

The Insert object menu provides a list of canned text items, sounds, animations, pictures, and emoticons that may be added to the text editor screen. Canned text may be created and saved to add to the text editor screen.

At the text editor screen:

 Position the cursor at the location to add an object.


Press **MENU** (Options Menu) and **6** to display the Insert object menu. Input the corresponding number:


- 1** To display the Add Quick text screen with a list of canned text.
- 2** To display the Sound list screen.
- 3** To display the Picture Files screen.
- 4** To display the Animations screen.
- 5** To display the Emoticons screen.
- 6** To display the Pictograph screen.

Use the navigation keys to highlight the desired object in the list.

Press **Softkey 1** (Preview) to view the object. Press **CLR** (Clear/Back) or **Softkey 2** (Stop/Cancel) end viewing and return to the previous list screen. (See Flag.)

With the object highlighted in the list screen, press  (Select) to return to the text editor screen and the object is inserted.

In the Preview screen for sounds, pictures, animations, and pictographs, press  (Select) **Softkey 1** (Insert) to return to the text editor screen and the object is inserted.

At the Emoticon screen, use the navigation keys to highlight the desired object and press  (Select) **Softkey 1** (OK) to return to the text editor screen and the emoticon is inserted.

Canned text provides a list of items to be added to the Add Quick Text list. The Quick Text menu provides options to add new canned text items, edit and delete existing canned text items, and restore the list to the original default canned text list.

To add, edit, delete or restore canned text, begin at the text editor screen and:

 Press **MENU** (Options Menu), **6**, and **1** to display the Add Quick Text list screen.

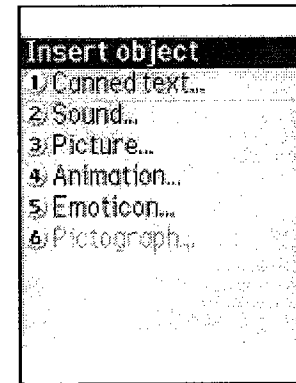
Highlight the canned text item to edit or delete.


Press **MENU** (Options Menu) to display the Quick Text menu.

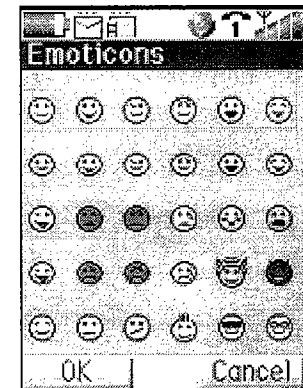
Input **1** to display the Create Quick Text screen or **2** to display the Edit Quick Text screen. Press **Softkey 1** (Mode) to select the text entry mode (ABC, 123, or T9) and input the text. Press  (Select/Save) to save the entry and return to the Add Quick Text screen. Press **Softkey 2** (Cancel) to cancel the add or edit and return to the Quick Text menu.

Input **3** to delete and a decision screen displays, "Delete selected text message?" Press **Softkey 1** (Delete) to confirm the deletion or press **Softkey 2** (Cancel) to cancel the deletion.

Input **4** to restore and a screen displays, "Restore defaults: This will destroy your personal text messages!" Press **Softkey 1** (OK) to confirm restoring to the default list and a busy screen displays, "Please wait while default text messages are restored..." A confirmation screen displays, "Default text restored." Press **Softkey 2** (Cancel) to cancel restoring the default list.



 Cannot preview Emoticons.





## T9 Text Language

Press **MENU** (Options Menu) and **7** to display the T9 language screen.

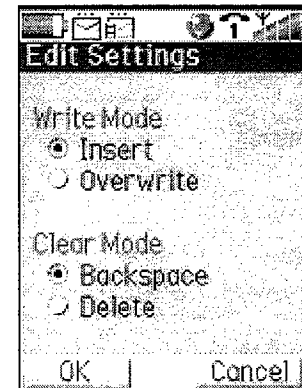
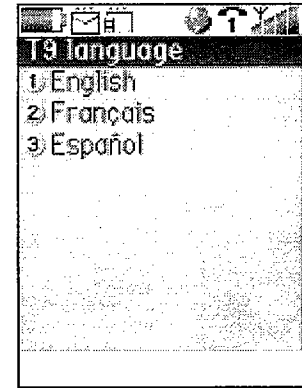
Input the number or use the navigation keys to highlight the preferred language and press  (Select) to return to the text editor screen.

## Text Edit Settings

Press **MENU** (Options Menu) and **8** to display the Edit Settings screen.

Use the navigation keys to highlight the type of write mode and clear mode of text entry and press  (Select) to select the radio button.

Press **Softkey 1** (OK) to save the settings and return to the text editor screen.



# Messaging and Voice Mail

(TBD)

# Web Browser

(TBD)

# Phonebook

To access Phonebook option of the main menu:

(TBD)

# My Data

(TBD)

# Camera Functions

(TBD)

# Call Records

(TBD)

# Applications

(TBD)

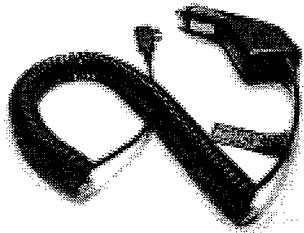


# Accessories

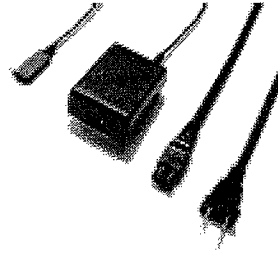
## Authorized Accessories

NEC recommends using only NEC Authentic Accessories™ with your wireless phone to ensure optimum quality performance. (See Flags and Warnings.) The NEC authorized accessories include the following:

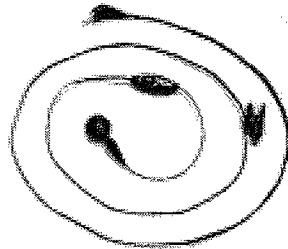
Vehicle Power Adapter  
(Part Number 155-0546)



AC Adapter and Charger Unit  
(Part Number 155-0541)\*



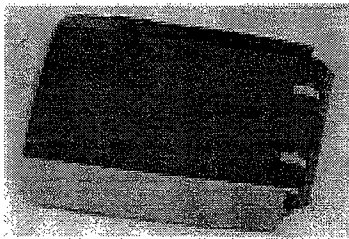
Hands-free Headset  
(Part Number 155-0543)\*



USB Synchronization Cable  
(Part Number 204-0433)



Battery  
(Part Number 155-0542)\*




 To purchase NEC Authentic Accessories™, please contact the NEC customer Care Center at 1-800-637-5917 in the United States.

 Look for the NEC Authentic Accessories™ logo to know if the item has been approved by NEC for use with the 525.



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

 **WARNING! The power cords of this product contain lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.**

\* These accessories are purchased and included in the wireless phone package.

## Battery

Refer to Battery Care and Disposal (see page 13) and Preparing the Battery (see page 17) for information the proper care, disposal, and charging the battery for use.

## AC Adapter and Charger Unit



### **CAUTION: POSSIBLE SHOCK HAZARD!**

Do not touch the AC adapter main unit, the AC cord, or electrical outlet with wet hands.

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

Do not pull the AC cord when removing it from the electrical outlet.

Use the correct voltage range. The AC adapter is 100V-240V.

Do not leave the AC adapter plugged in when not in use.

## Hands-free Headset

The foam covered ear piece (see picture is placed withing your ear. Do not put any other part of the headset in your ear.

Attach the clip near the neckline of your clothing so that the microphone is near your mouth. Do not attach the clip to any part of your body.

The hands free microphone is on one side with On/Off switch on the opposite side as shown in the picture. Press the round button to answer/connect a call. When the conversation is over, press the round button to disconnect the call.

## Vehicle Power Adapter

Connect the vehicle power adapter with the power adapter inserted into the cigarette lighter or vehicle power outlet. Do not insert the end of the cable that attaches to the 525 wireless phone into the vehicle power outlet.

## USB Connector Cable

Connect the USB PC Link cable according to the picture on the right.

The 525 plug end has release clips (see picture). Squeeze the release clips and insert into the 525 adapter port. When inserting the 525 plug, be sure that the rectangular opening on the connector is lined up with the rectangular opening in the phone. The plug will slide easily into the phone. **DO NOT FORCE THE PLUG!** When removing the plug from the phone, squeeze both release clips and gently pull straight out. The computer end is a standard USB connection.

# 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 radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the idle 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 radio frequency 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 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 radio frequency 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 radio frequency 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.

## FDA Consumer Update

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 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 radio frequency 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 radio frequency 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/oet/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.

8. What has the FDA done to measure the radio frequency energy coming from wireless phones?  
The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency 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 radio frequency 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 radio frequency 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 radio frequency 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.

## FDA Consumer Update

### 11. What about wireless phone interference with medical equipment?

Radio frequency 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 webpage 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.nrpb.org.uk/>)



# Warranty and Service

## 525 Wireless Phone

### 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 April 1, 2003 may be covered by this warranty:

NEC 525 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 a NECAM Distribution 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), with the IMEI (International Mobile station Equipment Identity). You may contact NECAM by calling (800) 637-5917 to obtain the address of the nearest NECAM Distribution Center. 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 Authorized Accessories

### 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 April 1, 2003 may be covered by this warranty:

#### NEC AUTHORIZED WIRELESS TELEPHONE ACCESSORIES

2. What does this limited warranty cover?

NECAM warrants only to the original end-user Product purchaser ("You") that the Products will 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 under normal use and service during the warranty period described in Paragraph 4.

3. When does your limited warranty begin?

The warranty period begins on the date you purchase the Product. Dated proof of purchase is necessary to accompany any Product returned for warranty service consideration. Valid proof of purchase must identify the point of purchase, date of Product purchase, and the model of Product purchased. However, if such dated proof of purchase identifying the date of Product purchase, and model of Product is not available, the warranty period begins on the date the Product is shipped from NECAM to the Dealer.

4. How long does the coverage last?

The warranty period for the Product is:

Ninety (90) Days

Any Products repaired or replaced under the terms of this warranty, are covered under the warranty for the remainder of the original warranty period.

5. What will NECAM 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 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, abuse, accident, physical damage, improper installation, negligence in use, abnormal operation or handling, neglect, water or other liquid intrusion, improper temperature, humidity or other environmental condition, including but not limited to, lightning, inuadon or fire; or,
- (ii) Products which have been repaired, altered or modified by anyone other than Authorized Service Warranty Representative of NECAM; or,
- (iii) Defects caused by equipment, components, parts or accessories not sold by NECAM or use of equipment, components, parts or accessories not compatible with the warranted product; or,
- (iv) Products whose warranty/quality labels, or product serial number plates have been removed, altered, or rendered illegible; or,
- (v) Products shipped to NECAM for repair from outside the United States.

(b) ANY OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE DISCLAIMED OR LIMITED TO THE DURATION OF THIS WARRANTY. SOME STATES DO NOT ALLOW DISCLAIMERS OR 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 MANUFACTURER'S SUGGESTED RETAIL PRICE FOR THE PRODUCT.

(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.

7. How do you get warranty service?

If your Product requires warranty service, it must be returned to a NECAM Distribution Center, at your expense, along with a description of the Product malfunction or difficulty. To obtain the address of the nearest NECAM Distribution Center contact the Dealer from which you purchased the Product or NECAM. You may contact NECAM by calling (800) 637-5917 or at the following Internet web-site address [www.necwireless.com/support/](http://www.necwireless.com/support/), (Email address: [support@necwireless.com](mailto:support@necwireless.com)). You are required to substantiate warranty status with a dated proof of purchase (as explained in item #3). NECAM assumes no risk for any damage, loss or misdirection in transit of any kind.

If, in NECAM's sole opinion, the Product failure is not covered under this warranty, you will be notified and Your authorization will be requested for any further repair activity. Products repaired under warranty will returned to you, transportation prepaid. You must pay return shipping costs for the Products repaired which are not covered by warranty.

8. How does State law apply to this warranty?

This warranty gives you specific 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 between the parties superseding all prior agreements, oral or written and all other communication between the parties relating to the subject matter of this limited warranty. No agent, Dealer employee of NECAM is authorized to make modifications to this limited warranty and any such representations should not be relied upon.

## NEC Customer 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):

<u>Telephone:</u>	<u>Writing*:</u>	<u>Email:</u>	<u>Website:</u>
1-800-637-5917	NEC America, Inc. Service Support 6555 N State Hwy 161 Irving, Texas 75039-2402	<a href="mailto:support@necwireless.com">support@necwireless.com</a>	<a href="http://www.necwireless.com">www.necwireless.com</a>

To locate the nearest retailer, contact 1-800-255-5664 or send an Email to: [sales@necwireless.com](mailto:sales@necwireless.com).

\*Send only written correspondence to the above address. Do not send the wireless phone or accessories to this address for repair or service.

**Cellular Telecommunications Industry Association 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, one 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.  
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 their accessories 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 Cellular Telecommunications Industry Association (CTIA) website, [www.wow-com.com](http://www.wow-com.com)