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NEC
DigitalTalk NEX 2600
Owner's Manual

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Chapter 1: Getting Started

Phone Activation

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

Phone Safety & Performance

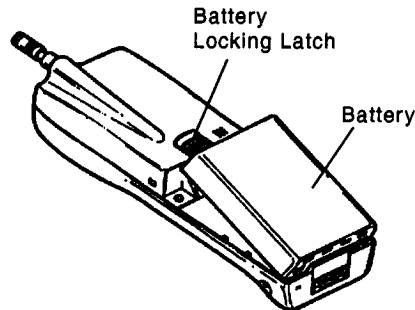
Prior to operating your cellular phone, please read this manual thoroughly including Chapter 4, "Chapter 4: Safety & Performance" on page 32.

NEC Authentic Accessories™

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

Connecting & Disconnecting the Battery

Your phone is powered by a rechargeable battery. (See "Battery Care & Disposal" on page 35 for important battery information.) To connect the battery to your phone, place the grooved end of the battery against the base of the phone. Lower the battery toward the phone to lock into place. To remove the battery, check that the phone is turned off. Slide the locking latch located above the battery upward and carefully lift the battery away from the phone.



Charging the Battery

A new phone battery must be fully charged before being used for the first time. The phone battery can be charged through one of two setups. During charging, the phone must be either powered off, or powered on but in standby mode only. The charging times listed below indicate the charging duration with the phone powered off.

Note: The phone can only be charged in conversation mode when the phone is connected to a vehicle power adapter; however, a vehicle power adapter is a slow charger with charging times longer than the standard and rapid charger times listed below. See "NEC Service Support" on page 38 for information on ordering a vehicle power adapter or any other NEC Authentic Accessories.

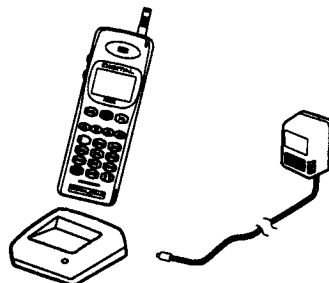
Setup 1: Phone & Standard AC Adapter Only

Plug the AC adapter into a standard AC electrical outlet. Insert the adapter plug into the jack located on the side of the phone.



Setup 2: Phone, Standard or Rapid AC Adapter, & Charging Stand

Plug the AC adapter into a standard AC electrical outlet. Insert the adapter plug into the charging stand jack. Place the phone in the charging stand. The red LED indicator on the charging stand illuminates while the battery is charging.



NiCd and NiMH Battery Charging Times		
	<u>With Standard Charger</u>	<u>With Rapid Charger</u>
NiCd	~10-12 hours	~ 1.5 hours
NiMH	~15 hours	~ 2 hours

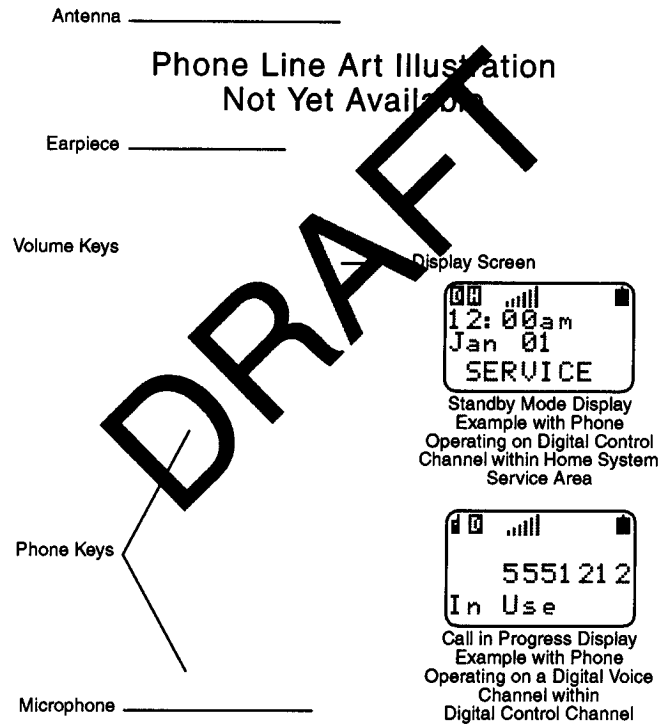
Voice Mail Messaging & Text Messaging

Voice mail messaging and text messaging services, when available, are provided by your cellular service provider. Before you can receive either voice or text messages with your phone, you must subscribe to these cellular service provider options. Contact your cellular service provider for information on availability and setup of these services. See "Voice Messages" on page 14 and "Text Messages" on page 15 for information on retrieving messages.

Phone Password

When your phone is activated, a 4-digit password is programmed into the unit. The password locks and unlocks your phone, and provides access to restricted phone settings. Check with your cellular service provider for information on your security password.

Phone Layout



Display Icons

Service Indicators

-  or  Digital or Analog Channel In Use
-  or  Home or Roam System Service In use
-  or  Roam System A or B In Use

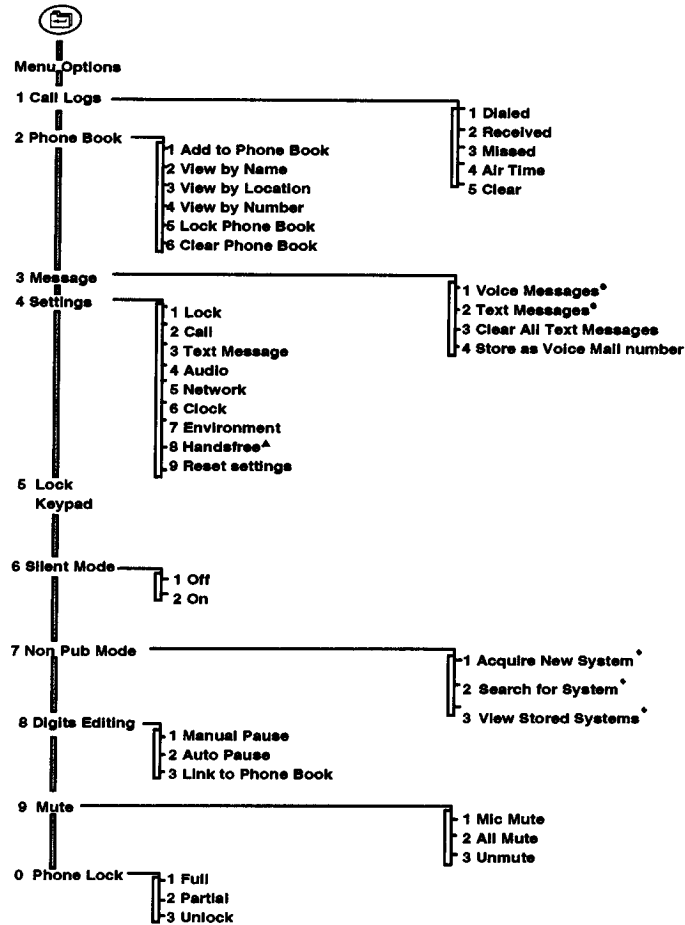
Call & Message Indicators

-  Call in Progress
-  Voice Mail Message Received
-  Text Message Received

Operation Indicators

-  Battery Charge Indicator (fully charged status shown)
-  Cellular Signal Strength
-  Battery Charging in Progress
-  Phone Full Lock Setting Activated
-  Phone Partial Lock Setting Activated
-  Alarm Clock Setting Activated
-  In Standby, Keypad Volume Adjusted; During Conversation, Earpiece Volume Adjusted

Menu Tree Overview



- Check with your cellular service provider for availability and service.
- ▲ Only available when phone is used with a handsfree adapter.
- ◆ Must have rights to a non-public or private system.

Menu Navigation Keys

Key	Action	Key	Action
	Display Main Menu or select a flashing menu or submenu selection.		Exit any menu and return to standby state display.
	Scroll to view entire menu and submenu contents.		Press to return to next higher menu level; press and hold to return to standby mode display.

Chapter 2: Basic Operations

Turning On Phone

Press and hold the **(PWR)** key for approximately two seconds to turn on the phone.

The cellular signal strength indicator, the battery charge indicator, the time, the date, and the cellular service provider indicator appear on the display. (See "Display Icons" on page 3.)



Turning Off Phone

Press and hold the **(PWR)** key for approximately two seconds to turn off the phone.

Standby Mode

Once the phone is powered on, the phone enters the standby mode. (The above screen illustration depicts the phone in standby mode.) The standby mode remains displayed until a call is placed or received, a menu is accessed, or the phone is powered off.

Signal Strength

The cellular signal is indicated on the display as  with the maximum of six bars indicating a strong signal. Although you can use the phone without extending the phone antenna, extending the antenna can increase the strength of the received cellular signal.

Battery Charge Indicator

The battery charge indicator () shows the charge level of the battery. When the battery charge drops to a low level, the phone displays the following warning message:

RECHARGE BATTERY

While displaying the recharge notification, the phone also sounds a double beep up to six times at 10-second intervals. The phone then automatically powers off. See "Charging the Battery" on page 2.

Placing a Call

With the phone in the standby mode, key in the telephone number and press **SEND**. The phone icon (📞) appears indicating the phone is in use.

Correcting Digit Entry Error

If you make a mistake entering a phone number, press **CLR** once to delete the last entered digit, or press and hold **CLR** to erase all of the entered digits.

Dialing a phone number stored in phone book

With the phone in the standby mode, press **CB** to access the phone book, use the **⬆** key to locate the desired phone number, and press **SEND**.

Calling Last Number Dialed

With the phone in the standby mode, press **SEND** to call the last number dialed.

Dialing a phone number on scratchpad

During a call, you can use your phone as a notepad or scratchpad to record a phone number provided to you. Once the call in progress is completed and you press **END** to terminate the call, you can call the displayed scratchpad phone number by pressing **SEND**. See "Adding Numbers from Scratchpad to the Phone Book" on page 12 for storing the scratchpad information to your phone book.

Ending a Call

Press **END**. Note that if you are within the menu system (see "Menu Navigation" on page 9), pressing **END** once only exits the menu system; pressing **END** twice returns the phone to the standby mode and ends the call.

Answering a Call

When the phone rings, press **SEND** to answer the call.

Caller Identification

If caller identification is available in your area, the phone number and/or name of the incoming call may be displayed when the call is received. Contact your cellular service provider on the availability of caller identification.

Call Waiting

If call waiting is available in your area, the phone sounds a tone during a call in progress to indicate a second call is incoming. To answer the incoming call, press **END**; press **END** again to return to the initial call in progress. Contact your cellular service provider on the availability of call waiting.

Any Key Answer Setting

If the any key answer setting is turned on, any key except **END** or **SEND** can be pressed to answer an incoming call. See "Any Key Answer" on page 18.

Ring Alert

The type and volume of the incoming call ringer alert can be adjusted. See "Selecting Ringer Type" on page 7 and "Setting Ringer Volume" on page 7.

Adjusting Earpiece Volume

The scroll key can be used to adjust the earpiece volume during a phone call. With a call in progress, press  to increase or to decrease the earpiece volume.

Adjusting Keypad Volume

The scroll key located can be used to adjust the keypad volume. With the phone in the standby state (no call in progress), press  to increase or to decrease the keypad volume.

Accessing and Navigating Menus

The phone menus can be accessed by pressing the  key. By pressing , the Main Menu is displayed. The contents of menus and submenus can be viewed by pressing . See Chapter 3, "Chapter 3 Menus," on page 9.

Additional Menu Selection Information



For several menu selections, additional usage information is provided to assist you with making the appropriate selection. These helpful usage tips are identified with the marker shown on the left.

Setting Ringer Volume

The incoming call ringer volume can be set to one of five settings. Press    . The ring volume menu appears with the currently selected ring volume setting flashing on the display. The available settings are 1 for minimum, 2 for low, 3 for medium, 4 for high, and 5 for off (no ringer). Press the corresponding number for the desired ringer volume setting. The phone rings your selection. Press  to save your selection and exit the ring volume menu.

Selecting Ringer Type

The incoming call ringer alert can be set to one of four selections. Press    . The ring type menu appears with the currently selected ringer selection flashing on the display. The available settings are 1, 2, 3, and 4. Press , , , , , , or  to hear the selected setting. The phone rings your selection. Press  to save the selected setting and exit the ring type menu.

Viewing Your Phone Number

To view the phone number of your cellular phone, press  with the phone in the standby mode. The phone number appears

on the bottom line of the display for approximately three seconds.

Retrieving Voice Mail

If voice mail service is available through your cellular provider, you can easily retrieve your voice mail messages by pressing and holding **123** with the phone in the standby mode. If the voice mail retrieval phone number has been set up in your phone, the phone number is automatically dialed. Follow your cellular service provider instructions for voice mail retrieval.

Storing Voice Mail Number

See "Store As Voice Mail Number" on page 17.

Retrieving Text Messages

If text messaging service is available through your cellular provider, you can easily view text messages received in your phone by pressing **DEF** **2ABC** with the phone in the standby mode. See "Text Messages" on page 15.

Using the Phone Book

Up to 99 phone numbers can be stored in the phone book. Once phone number entries are stored, the phone book is at your fingertips for easy dialing. To dial a phone number stored in the phone book, press **☎** with the phone in the standby mode to access phone book. Use the **↑** key to locate the desired phone number and press **SEND**. To add, view, edit, or delete phone book entries, see "2. Phone Book" on page 11.

Setting the Time and Date

To access the clock menu for setting the correct time and date, press **☎** **4 GHI** **6 MNO** **123**. The current time and date settings are displayed. Key in the correct hour; press **↑**. Key in the correct minutes; press **↑**. Press **☎** to select either a.m. or p.m. Key in the correct month by entering in the corresponding number from 1 through 12 for the desired month; press **↑**. Key in the correct day of the month from 1 through 31; press **↑**. If the correct year is displayed, press **END** to save the clock entry and to exit the clock menu. (Note that to enter the date "February 29" during a leap year, the year must be entered before the day.) If the correct year is not displayed, key in the corresponding four digits of the correct year, and press **END** to save the time and date settings, and to exit the clock menu.

Chapter 3: Menus

Menu Navigation

The phone contains menus and submenus to access and select the phone settings. You can navigate through all menus and submenus by using the  key to scroll through the menu listings. Each of the menu and submenu listings has an assigned menu or submenu number. You can select and access a menu by pressing the assigned menu number on the keypad or by pressing  when the desired menu listing is flashing on the display.

You can return to the previously displayed menu by pressing . You can return to the standby display by pressing  or by pressing and holding .

You can quickly access menus by using the assigned menu and submenu numbers as shortcuts. Note that the menu shortcuts are provided for each menu and submenu.

Main Menu

The main menu contains all of the menu and submenu settings. With the phone in the standby mode, the main menu can be accessed and displayed by pressing . The main menu is displayed below.

```
Main menu
1 .Call
  Logs
2 .Phone
-----
  Book
3 .Message
4 .Settings
5 .Lock
  Keypad
6 .Silent
  Mode
7 .Non Pub
  Mode
8 .Digits
  Editing
9 .Mute
10 .Lock
  Phone
```

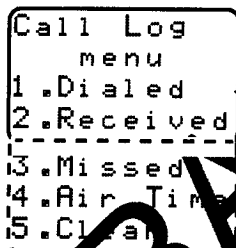
Press 
to scroll through
and view the entire
Main Menu

1. Call Logs

Menu Shortcut

1

With the phone in the standby mode, the Call Log Menu can be accessed by pressing **123**. The Call Log Menu is displayed below.



Press **4** to scroll through and view the entire Call Log Menu

Dialed (Call Log)

Menu Shortcut

123 123

Your phone maintains a list of up to 20 of the last phone numbers you dialed. To view the list of the last 20 outgoing calls, press **123 123**. Scroll through the contents of the dialed phone number log by pressing **4**. Press **SEND** to dial a displayed phone number² in the log or press **END** to exit the dialed phone number log.

Received (Calls Log)

Menu Shortcut

123 2ABC

Your phone maintains a list of up to 20 of the last incoming calls you received. To view the list of the last 20 incoming calls, press **123 2ABC**¹. Scroll through the contents of the received phone number log by pressing **4**. Press **SEND** to dial a displayed phone number² in the log or press **END** to exit the received phone number log.

Missed (Calls Log)

Menu Shortcut

123 3DEF

Your phone maintains a list of up to 20 of the last incoming calls you missed. To view the list of the last 20 unanswered calls, press **123 3DEF**¹. Scroll through the contents of the missed phone number log by pressing **4**. Press **SEND** to dial a displayed phone number² in the log or press **END** to exit the missed phone number log.

1. If the dialed, received, or missed phone number log does not contain any call information, the phone beeps and the call log menu remains displayed when an attempt to view the log is made.
2. When a phone number stored in a call log is viewed, only the last 10 digits of the phone number are displayed; however, a maximum of 15 digits are retained in memory. All digits of a phone number stored in a call log are displayed and dialed when **SEND** is pressed.

Air Time | Menu Shortcut |

Menu Shortcut
 (MENU) (123) (4 GHI)

Your phone automatically maintains a log of the total air time usage. The air time counter can be viewed by pressing (MENU) (123) (4 GHI). The time counter for the air time usage in your cellular provider service area (indicated with an "H" for home system) and the air time usage outside your cellular provider service provider (indicated with an "R" for roam system) are displayed. Press (END) to exit the air time log.

Clear Call Logs & Air Time Counter | Menu Shortcut |

Menu Shortcut
 (MENU) (123) (5 JKL)

The phone numbers maintained in the call logs and the air time usage log can be cleared with all contents completely erased. To clear one or more of the logs, press (MENU) (123) (5 JKL). Select (123) to clear the called phone number log, (2 ABC) to clear the received phone number log, (3 DEF) to clear the missed phone number log, (4 GHI) to clear the air time log, or (5 JKL) to clear all of the logs. Press (2 ABC) for Yes. Press (CLR) or (END) to exit the call log clear menu.

2. Phone Book | Menu Shortcut |

Menu Shortcut
 (MENU) (2 ABC)

With the phone in the standby mode, the Phone Book Menu can be accessed by pressing (MENU) (2 ABC). The Phone Book Menu is displayed below.

```

Phone Book
1.Add to
Phone Book
2.View by
-----
   name
3.View by
location
4.View by
number
5.Lock
Phone Book
6.Clear
Phone Book
-----
  
```

Press (UP) to view the entire Phone Book Menu

Add to Phone Book | Menu Shortcut

To add a phone number to the phone book, press **[Menu] 2 ABC 1 [Enter]**. Enter the phone number you want to add to the phone book and press **[Enter]**. Use the keypad to enter a name associated with the phone number. By repeatedly pressing a key, the characters shown in the table below can be included in a phone book entry name. You can enter a name of up to 10 characters with any blank space or symbol counted as a character. Press **[# 3]** to insert a blank space or to advance the cursor to the next character position when entering a name.

Key	Character	Key	Character
[1 2 3]	1 .	[8 TUV]	8 TUV tuv
[2 ABC]	2 ABC abc	[9 WXYZ]	9 WXYZ wxyz
[3 DEF]	3 DEF def	[0 +]	0
[4 GHI]	4 GHI ghi	[* *]	& - # *
[5 JKL]	5 JKL jkl	[# 3]	blank spaces
[6 MNO]	6 MNO mno	[CD # 1]	Auto Pause (indicated by ",")
[7 PQRS]	7 PQRS pqr	[CD # 3]	Manual Pause (indicated by "P")

After the name is entered, press **[Enter]**. Press **[Enter]** again to accept the displayed (next available) speed dial location, or specify another speed dial location and press **[Enter]**. Note that if you enter another speed dial location instead of accepting the displayed next available location, a phone book entry currently stored in the specified location could be overwritten and deleted.

Adding Numbers from a Call Log to the Phone Book

If you want to add a phone number from a call log to your phone book, display the call log entry containing the desired phone number. Press **[Menu]** to access the phone book menu. Press **[1 2 3]** to add the number to the phone book and follow the steps described in "Add to Phone Book" on page 12.

Adding Numbers from Scratchpad to the Phone Book

During a call, you can use your phone as a scratchpad to record a phone number. Once the call in progress is ended, you can either dial the scratchpad phone number (see "Dialing a phone number on scratchpad" on page 6) or you can store the scratchpad number to the phone book. With the scratchpad phone number displayed, press **[Menu] 2 ABC 1 [Enter]**. As prompted, enter a name and complete the phone book addition following the steps described above.

The phone book entries can be recalled using the name stored with the phone number, the speed dial location number, or the phone number itself.

View by Name | Menu Shortcut |

(2)ABC (2)ABC

To recall a phone book entry by name, press **(2)ABC (2)ABC**. Enter the first letter(s) of the desired phone book entry name and press **(2)ABC**. If necessary, press the **(4)↑** key to locate the phone book entry. Press **(SEND)** to dial the phone number or press **(END)** to exit the phone book.

View by Location | Menu Shortcut |

(2)ABC (3)DEF

To recall a phone book entry by the speed dial location number, press **(2)ABC (3)DEF**. Enter the location number and press **(2)ABC**. Press **(SEND)** to dial the phone number or press **(END)** to exit the phone book menu.

View by (Phone) Number | Menu Shortcut |

(2)ABC (4)GHI

To recall a phone book entry by the phone number, press **(2)ABC (4)GHI**. Enter the first number(s) of the desired phone number and press **(2)ABC**. If necessary, press the **(4)↑** key to locate the phone book entry. Press **(SEND)** to dial the phone number or press **(END)** to exit the phone book.

Locking the Phone Book | Menu Shortcut |

(2)ABC (5)JKL

Your phone book can be secured to prevent the contents from being altered or viewed. Locking your phone book also safeguards against the contents being accidentally erased.

To restrict access to your phone book, press **(2)ABC (5)JKL**. As prompted, enter your 4-digit password. Press **(1)2X** for no restrictions on your phone book, **(2)ABC** to restrict the phone book contents to view only, or **(3)DEF** to completely restrict access to the phone book. Press **(END)** to exit the phone book menu.

Clearing the Phone Book | Menu Shortcut |

(2)ABC (6)MNO

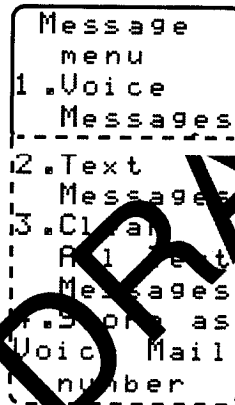
The phone book contents can be completely erased. To erase the contents, press **(2)ABC (6)MNO**. As prompted, enter your 4-digit password. Press **(2)ABC** to clear your phone book. Press **(CLR)** to exit the phone book menu.

3. Message

Menu Shortcut



The Message Menu can be accessed by pressing  **3 DEF**. The Message Menu is displayed below.



Press 

to scroll through
and view the entire
Message Menu

Your phone can receive voice and text messages. Contact your cellular service provider for information and availability of voice and text messaging.

Voice Messages

Menu Shortcut



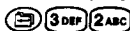
When you receive a voice mail message, the following notification displays:

You Have Voice Mail

To retrieve your voice mail immediately, press **SEND**. If your voice mail number has been stored in your phone (see "Store As Voice Mail Number" on page 17), the voice mail system phone number is automatically dialed. Follow your cellular service provider instructions for accessing your voice mail and checking your messages.

If you do not wish to retrieve a voice mail message immediately, press **CLR**. The voice mail notification is removed from the display; however, with the phone in the standby state, the voice mail icon () and the number of voice mail messages appear on the display. If the voice mail phone number is stored in your phone, you can retrieve messages at any time by pressing and holding **123** or pressing  **3 DEF** **123**.

Text Messages | Menu Shortcut



When you receive a text message, your phone sounds an alert and displays a notification. The alert and the displayed notification vary depending on the type of received text message. The types of text messages, the displayed notifications, and the alerts are shown below.

Type of Text Message	Displayed Notification	Alert
Emergency	XXX New EMERGENCY Messages Press MENU	Dual tone alert; repeated three times.
Urgent	XXX New URGENT Messages Press MENU	Dual tone alert; repeated two times.
Normal	XXX New Messages Press MENU to read	Dual tone alert; repeated one time.
Bulk	XXX Bulk Messages Press MENU to read	Dual tone alert; repeated one time.

XXX in displayed notification equals the actual number of messages received.

To view your text message(s) immediately, press . The first new message is displayed within the text message viewer. Use  to scroll through each line of the message. (See "Text Message Viewer" on page 16 for additional information on navigating within text messages.) The end of a text message is indicated by the following displayed notation:

```
*****
* MSGEND *
*****
```

The viewing order that text messages are displayed can be selected. (See "SMS Menu" on page 16 for information on selecting message sort order.) If the sort order setting is based on message urgency, message types are displayed in the following descending order: emergency, urgent, normal, and bulk.



Read and Unread Text Messages

Note that the sort order applies to unread and read messages separately. All unread messages are displayed first in the appropriate sort order, and then previously read messages are displayed.

If you do not wish to view a text message immediately, press . The text message notification is removed from the display; however, when the phone is in the standby mode, the text message icon  and the number of received unread text messages remain displayed until the text messages are viewed. You can view text messages at any time by pressing   .

Text Message Viewer

Text messages are displayed within the text message viewer. The following keys can be used to navigate and operate within the text message viewer.

- Scrolls up or down through text messages line-by-line.
- Scrolls to the top of the next text message.
- Scrolls to the top of the previous text message.
- Automatically dials the contact telephone number if the sender provided a callback telephone number as part of the message.
- Displays the short messaging service, SMS, pop-up menu. The SMS menu is detailed below.
- Briefly displays the percentage of text message memory available and the number of unread and locked messages, then exits the text message viewer.
- Exits the text message viewer.

SMS Menu

The SMS (short messaging service) Menu within the text message viewer contains text messaging options such as locking or unlocking a message, deleting a message, displaying more or less message details, and displaying text messages based on message urgency or arrival time.

1. **Lock Message** With a text message displayed, press to lock a message; the lock indicator () appears on the top line of the text message indicating the message is locked. Press to unlock the message. Note that a locked message cannot be deleted using the SMS menu delete message selection; locked messages can only be deleted through the Message Menu () , page 14.
2. **Delete Message** With a text message displayed, press ; press to delete.
3. **Display more message details** With a text message displayed, press to display a more detailed message header (includes the time and date the text message is sent and received); press again to display a less detailed message header (includes only the time and date the text message is received).
With a text message displayed:
 - 4. **Sort by message urgency** • Press to display the text messages by message urgency (see page 15 for information on message types and sort order).
 - 5. **Sort by oldest message** • Press to display the oldest text messages first.
 - 6. **Sort by newest message** • Press to display the newest text messages first.

Clear All Text Messages | Menu Shortcut |

Text messages stored in your phone can be deleted. Press   . Press  to delete all text messages stored in your phone or press  to delete only the unlocked text messages stored in your phone. Press  (twice) to complete the deletion of text messages. Press  or  to exit the clear text messages menu.

Store As Voice Mail Number | Menu Shortcut |

The voice mail system telephone number can be stored into your phone. Once the voice mail telephone number is stored into your phone, voice messages can be easily retrieved by pressing and holding  or  . To store the voice mail telephone number into your phone, key in the voice mail telephone number with the phone in the standby mode; press   . The following message displays:

Voice mail number has been Stored Press CLR
Press  or  to exit the store as voice mail setting.

4. Settings | Menu Shortcut |

The Settings Menu can be accessed by pressing  . The Settings Menu is displayed below.

```

Setting
  menu
1 .Lock
2 .Call
-----
3 .Text
  Message
4 .Audio
5 .Network
6 .Clock
7 .Environ-
  ment
8 .HandFree
9 .Reset
  settings
  
```

Use  and  to scroll through and view the entire Settings Menu

Lock | Menu Shortcut |

4 QH 123

Auto Lock | Menu Shortcut |

4 QH 123 123

To protect your phone from unauthorized usage, you can set your phone to automatically lock when it is turned on. With the phone in the standby mode, press 4 QH 123 123.

As prompted, enter the 4-digit password. Press to set the automatic lock selection to on.

If automatic lock is set to on, the phone is locked when it is powered on. To unlock the phone, press 0 +, enter the 4-digit password as prompted, and press for unlock.

Press to exit the lock menu. To deactivate the automatic lock setting, press 4 QH 123 123, enter password and press . Press to exit the lock menu.

Set (Change) Password | Menu Shortcut |

4 QH 123 2 ABC

The 4-digit password used to access all secured menu selections and to lock the phone can be changed. Press 4 QH 123 2 ABC.

As prompted, enter the current 4-digit password and then enter the desired new 4-digit password.

Press . The phone automatically resets and powers on again. The new password must now be entered to access secured menu settings.

Call | Menu Shortcut |

4 QH 2 ABC

Any Key Answer | Menu Shortcut |

4 QH 2 ABC 123

With the any key answer setting activated, any key except and can be pressed to answer the phone. Press 4 QH 2 ABC 123.

Press to set any key answer to Off or press to set any key answer to On. When set to On, you can answer a call with any key except or .

Analog/Digital Call Type | Menu Shortcut |

4 QH 2 ABC 2 ABC

Your digital phone operates on either a digital or an analog system control channel. As shown in "Phone Layout" on page 3, the current system control channel is indicated on the standby mode display by the icon for digital or the icon for analog. Even when your phone is operating on a digital control channel, the voice channel your phone uses

each time a call is either sent or received also can be either digital or analog. (See the following paragraph for information on the use of digital and analog voice channels.) To select the voice channel type, press **[MENU]** **[4 OH]** **[2 ABC]** **[2 ABC]**; then press **[1 X]** for digital call type or **[2 ABC]** for analog call type. The call type/voice channel currently in use for the call in progress is indicated on the phone display by the **[1]** icon for digital voice channel or the **[2]** icon for analog voice channel.



Digital & Analog Voice Channels/Call Types

With the voice channel/call type selection set to digital, your phone uses a digital voice channel, as available, to send and receive calls. If a digital voice channel is not available, your phone then automatically searches for an analog voice channel.

With the voice channel/call type selection set to analog, your phone only uses an analog voice channel to send and receive calls. The restricted use of analog voice channels is necessary if you are using a PCM-CIA data interface card with your phone to send facsimiles or communicate via modem. Note that operating on an analog voice channel consumes the phone battery power at a faster rate than operating on a digital voice channel.

For optimum results and performance, you can set your phone to the digital call type selection and use the analog call type selection, as needed, for use with a data interface card.

DTMF Length | **Menu Shortcut** | **[MENU]** **[4 OH]** **[2 ABC]** **[3 DEF]**

Your phone can transmit tones, referred to as DTMF tones, when the keys of the phone are pressed. These tones allow your phone to successfully communicate with automated telephone services such as banking transactions and credit card inquiries. You can set your phone to transmit short tones or long tones. (See the following paragraph for additional information on short tone use and long tone use). To select the length of the tone, press **[MENU]** **[4 OH]** **[2 ABC]** **[3 DEF]**. Press **[1 X]** to select the short tone setting or press **[2 ABC]** to select the long tone setting. Press **[END]** to exit the DTMF length menu.



Short Tone Use & Long Tone Use

You can access most automated systems by setting your phone to the short tone selection. If you experience any problems communicating with an automated system, set the DTMF length to long and verify that the capability to transmit tones (see the following menu selection, Transmit DTMF Tone) is turned on. Note that you must press and hold a key, up to a maximum of three seconds, to transmit a long tone. Because transmitting long tones can result in slower dialing, you can set your phone to the short tone selection and only use the long tone selection, as needed.

Transmit DTMF Tone | Menu Shortcut |

For your phone to successfully transmit tones, as described in "Transmit DTMF Tone" on page 20, for accessing automated telephone systems, the capability to transmit tones must be turned on. (See the following paragraph for additional information on setting tones on or off.) To select the DTMF tone setting, press **[M] 4 QHI 2 ABC 4 QHI**. Press **[1X]** to turn off tone transmission or press **2 ABC** to turn on tone transmission. Press **[END]** to exit the transmit DTMF tone menu.



DTMF On or Off

Since the ability to communicate with automated systems is frequently needed, you can usually set and maintain the DTMF tone transmit selection to on. If you use the phone scratchpad feature (see "Dialing a phone number on scratchpad" on page 6) to key in a phone number during a call in progress, you can turn off the DTMF selection, as needed, to avoid generating audible tones that can be disruptive during a phone conversation.

Text Message | Menu Shortcut |

Roll Off Order | Menu Shortcut |

As described in "Text Messages" on page 15, your phone can receive text messages if text messaging service is available through your cellular service provider. When the phone text message storage is full and more text messages are delivered, existing messages are automatically replaced with the new messages. The order in which the existing messages are replaced, referred to as roll off order, can be selected based on message arrival time or message urgency.

To select the roll off order of messages, press **[M] 4 QHI 3 DEF 1X**. Press **[1X]** for existing messages to be replaced based on time and date of message receipt (oldest messages replaced first) or press **2 ABC** for messages to be replaced based on message urgency classification (with messages labeled urgent replaced last). Press **[END]** to exit the roll off order menu.

Word Wrap | Menu Shortcut |

The display of words within received text messages can be changed using the word wrap setting. The word wrap setting allows you to determine how text breaks within received messages. (See the following paragraph for additional information.)

mation on enabling or disabling word wrap.) To set the word wrap selection, press **[Menu]** **[4 QW]** **[3 DEF]** **[2 ABC]**; press **[1 END]** to enable word wrap or press **[2 ABC]** to disable word wrap.



Enabled or Disabled Word Wrap

With the word wrap selection set to enabled, the word breakage within text messages is limited to words exceeding 10 characters. Because word division is restricted, the messages can be easier to read; however, text messages with word wrap enabled usually contain more lines of text and require additional scrolling.

With the word wrap selection set to disabled, text messages are displayed utilizing each of the 10 character blocks per line. Word breakage is not restricted. Although word breakage may affect readability, the messages with word wrap disabled usually contain less lines of text and require less scrolling.

Sort Order | Menu Shortcut |

The order for viewing incoming messages can be set using the sort order selection. Press **[Menu]** **[4 QW]** **[3 DEF]** **[3 DEF]**; press **[1 END]** to view urgent messages first, **[2 ABC]** to view oldest messages first, or **[3 DEF]** to view new messages first.

Audio | Menu Shortcut |

Ring volume | Menu Shortcut |

The ring volume can be set to one of five settings. See "Setting Ringer Volume" on page 7.

Ring type | Menu Shortcut |

The incoming call ringer alert can be set to one of four settings. See "Selecting Ringer Type" on page 7.

Escalating alert | Menu Shortcut |

The incoming call ringer alert can be set to increase in volume as the phone continues to ring. The initial ring alert sounds at the minimum volume level. As the phone continues to ring, the volume level escalates up to the maximum volume level. To set the escalating alert selection, press **[Menu]** **[4 QW]** **[4 QW]** **[3 DEF]**. Press **[2 ABC]** to turn on escalating alert or press **[1 END]** to turn off escalating alert. Press **[END]** to exit the escalating alert menu.

Network | Menu Shortcut |



Voice Privacy | Menu Shortcut |



Voice privacy is an enhanced security feature available through some digital cellular service providers. Voice privacy encrypts or scrambles the voice channel to ensure a telephone conversation is secure and private. For your phone to utilize the cellular service provider's enhanced voice privacy feature, the voice privacy setting in your phone must be turned on. To set the voice privacy selection, press **4 GH** . Press to turn off voice privacy capability and notifications or press to turn on voice privacy capability and notification. When sending a call, **UP Active** is displayed if the voice privacy selection is turned on, enhanced voice privacy is available through the cellular service provider, and voice privacy security is active for the call in progress. When sending a call, **UP Inactive** is displayed if the voice privacy selection is turned on; but voice privacy is not available through the cellular service provider or voice privacy security is inactive for the call in progress. Contact your cellular provider for the availability of voice privacy.

Select System | Menu Shortcut |



When your telephone is initially activated, your cellular service provider programs (or instructs you to program) your phone with system information including your telephone number. The information programmed into your phone is referred to as the Number Assignment Module or NAM.

Your cellular phone can be programmed with two different telephone numbers or NAMs. (See "Select Phone Number" on page 23.) Note that only one phone number or NAM can be active at one time.

During activation, your phone is also set up on your cellular service provider's network. The network your phone uses is referred to as the Home system. Whenever possible, your phone accesses the Home system; however, if you are outside of the home cellular service area, your phone attempts to locate an available system. Locating an available system is referred to as roaming. The call air time rate on roam systems is usually more expensive than the call air time rate on your home system. You can, however, limit your phone's access to roam systems through your system selection setting.

To set the system selection, press **[Menu] 4 QHI 5 JKL 2 ABC**.

Select one of the following system settings.

Standard

Press **[Menu]** to set your system selection to Standard (Home and Roam). The Standard setting allows the phone to first search for an available channel in the home system. If the phone cannot find an available channel in the home system, the phone searches for an outside or roam system. The roam indicator, **[R]**, and the roam system type indicator, **[H]** or **[R]**, are displayed when your phone accesses an outside or roam system.

Home Only

Press **[Menu]** to set the system selection to Home Only. The Home Only setting restricts the phone to search for an available channel in the home system only. If the phone cannot locate an available channel in the home system, the phone enters a no service status until a channel within the home system is again located.

System A Only

Press **[Menu]** to set the system selection to System A only. The System A only setting restricts the phone to search for an available channel in the home system or a roam system within System A Only.

System B Only

Press **[Menu]** to set the system selection to System B only. The System B Only setting restricts the phone to search for an available channel in the home system or a roam system within System B Only.

Select Phone Number | Menu Shortcut |
[Menu] 4 QHI 5 JKL 3 DEF

Your phone can be programmed with up to two phone numbers. If two phone numbers are programmed into the phone, you can select the desired phone number to use by pressing **[Menu] 4 QHI 5 JKL 3 DEF**. Press **[Up Arrow]** to highlight the phone number selection (No.1 or No. 2.). Press **[END]** to exit the select phone number menu.

Clock | Menu Shortcut |
[Menu] 4 QHI 6 MNO

Set Clock | Menu Shortcut |
[Menu] 4 QHI 6 MNO 1

The clock can be set with the time, date, and year. See "Setting the Time and Date" on page 8.

Set Alarm, Auto On, Auto Off | Menu Shortcut |
[Menu] 4 QHI 6 MNO 2 ABC

Your phone can be used as an alarm clock, and your phone can be set to automatically turn on or off at a specified time each day. To access the alarm or the auto on/off selections, press **[Menu] 4 QHI 6 MNO 2 ABC**.

Alarm

Set Alarm: With the Auto On/Auto Off/Alarm setting screen displayed, press  until ALM is flashing; press . If the alarm has been previously set, the last alarm time setting is automatically displayed. Press  to advance to the hour field. Key in hour; press . Key in minutes; press . Use  to specify a (for a.m.) or p (for p.m.). Press  to save the alarm time setting and exit the set alarm menu. The alarm icon () appears on the standby mode display. The alarm sounds at the specified time setting.

Turn Off Alarming Phone: Press  to turn off the phone alarm when it sounds.

Deactivate Alarm Prior to Alarming: To turn off the alarm setting prior to the specified alarm time, press     and press  until ALM is flashing. Press  to cancel alarm time; press  to exit the set alarm menu.

Auto Power On/Auto Power Off

Set Auto Power On/Auto Power Off: With the Auto On/Auto Off/Alarm setting screen displayed, press  until either ON or OFF is flashing; press . If the auto power selection has been previously set, the last auto power setting is automatically displayed. Press  to advance to the hour field. Key in hour; press . Key in minutes; press . Use  to specify a (for a.m.) or p (for p.m.). Press  to save the auto power on or auto power off setting and exit the menu. The phone automatically turns on or turns off each day at the specified time setting.

Deactivate Auto Power On/Auto Power Off: To deactivate the auto power on or auto power off setting, press    , and press  until either ON or OFF is flashing. Press  to cancel the auto power on or auto power off time; press  to exit the menu.

Environment | Menu Shortcut |

One-Touch Dialing | Menu Shortcut |

The one-touch dialing feature allows you to quickly speed dial a phone number by pressing only one key. With one-touch dialing turned on, phone numbers stored in phone book locations 1 through 9 can be dialed by pressing and holding the corresponding key on the keypad. To turn on one-touch dialing, press    . Press  to turn on the one-touch dialing selection or press  to turn off the one-touch dialing selection. See "Add to Phone Book" on page 12 for phone book storing information.

Fixed Digit Dialing | Menu Shortcut |

The type of outgoing calls made from your phone can be restricted by using fixed digit dialing. For example, the fixed digit dialing selection can be set to 7 digits to restrict the

outgoing calls to local phone numbers. To set the fixed digit dialing selection, press **[END]** **[4 GH]** **[7 PQRS]** **[2 ABC]**. As prompted on the display, enter the 4-digit password. Type in a specified number of digits for restricting outgoing calls; for example, press **[7 PQRS]** to restrict outgoing calls to 7-digit numbers. The range is 0 to 26 digits. Press **[END]** to save setting; press **[END]** to exit the fixed digit dialing menu. If a call is attempted to a phone number exceeding the restricted fixed digit setting, the following message is displayed:

Extra Digs Dialed Press CLR

Language **[Menu Shortcut]** **[END]** **[4 GH]** **[3 DEF]**

The phone display language can be set to English, Spanish, or French. To change the display language selection, press **[END]** **[4 GH]** **[7 PQRS]** **[3 DEF]**. Press **[1 23]** to select English, **[2 ABC]** to select Spanish, **[3 DEF]** to select French, or **[4 GH]** to select Portuguese. Press **[END]**. The phone automatically powers off and then powers on again in the selected display language.

Wakeup Message **[Menu Shortcut]** **[END]** **[4 GH]** **[7 PQRS]** **[4 GH]**

A personal message, referred to as a wakeup message, can be stored and displayed briefly each time your phone is turned on. To store a wakeup message, press **[END]** **[4 GH]** **[7 PQRS]** **[4 GH]**. Using the table under "Add to Phone Book" on page 12, type in the message using the phone keys. Press **[END]** to save the message and exit the wakeup message menu.

Handsfree **[Menu Shortcut]** **[END]** **[4 GH]** **[8 TUV]**

The following menu selections - handsfree switch, backlight, and automatic answer - can only be activated when the phone is used with a handsfree adapter.

Handsfree Switch **[Menu Shortcut]** **[END]** **[4 GH]** **[8 TUV]** **[1 23]**

When your phone is connected to an in-vehicle handsfree adapter, two phone features are available for some vehicle installation configurations. If available, the features can be activated by pressing **[END]** **[4 GH]** **[8 TUV]** **[1 23]**. Press **[2 ABC]** to enable call alert, **[3 DEF]** to enable radio mute, or **[1 23]** to disable the call alert or radio mute feature. Press **[END]** to exit the handsfree switch menu.

Backlight | Menu Shortcut |

When your phone is connected to an in-vehicle handsfree adapter, the keypad and display backlight can be set to remain illuminated continuously. To select the backlight setting, press **[4 GHI] [8 TUV] [2 ABC]**. Press **[4 GHI]** for the phone backlight to remain on continuously in a handsfree configuration or press **[1 X]** to turn it off. Press **[END]** to exit the backlight menu.

Auto Answer | Menu Shortcut |

When your phone is connected to an in-vehicle handsfree adapter, the phone can be set for automatic answering of incoming calls. To activate the automatic answer setting, press **[4 GHI] [8 TUV] [3 DEF]**. Press **[2 ABC]** to turn on automatic answering or press **[1 X]** to turn off automatic answering. Press **[END]** to exit the auto answer menu.

Reset Settings | Menu Shortcut |

The current phone selections can be cleared and reset to the factory default settings. To reset the phone settings, press **[4 GHI] [9 WXYZ]**. As prompted, enter the 4-digit password. Press **[2 ABC]** to reset all selections to the default settings or press **[1 X]** to maintain the current settings. Press **[END]** to exit the reset settings menu.

5. Lock/Unlock Keypad | Menu Shortcut |

Your phone keypad can be easily and quickly locked to prevent inadvertent key pressing when the phone is turned on. Press **[5 JKL]** to lock keypad; press **[5 JKL]** again to unlock keypad. If a key is pressed when the keypad is locked, the following message is displayed:

Keypad is locked. Use MENU 5 to Unlock

Note that even with the keypad locked, you can still dial an emergency number (such as 911) and press **[SEND]** to call for emergency services.

6. Silent Mode | Menu Shortcut |



The Silent Mode Menu can be accessed by pressing  **6MNO**. The Silent Mode Menu is displayed below.

```
Silent
mode
1 .Off
2 .On
```

By setting the phone to the silent mode, all phone alerts are turned off; an incoming call is indicated only by the keypad and LED flashing, and the incoming call notification appearing on the display. With the silent mode menu displayed, press  to turn off silent mode or press  to turn on silent mode. Press  to exit the silent mode menu.

7. Non Pub(lic) Mode | Menu Shortcut |



The Non-Public Mode Menu can be accessed by pressing  **7PQRS**. The menu is displayed below.

```
Private
Mode Menu
1.Acquire
New System
-----
2.Search
for System
3.View
Stored
Systems
```

Press  to scroll through and view the entire Private Mode Menu

In addition to operating on a cellular network system, your phone is also capable of operating on a non-public or private telephone system. Note that the phone user must first subscribe or have rights to a non-public or private telephone system to utilize the following private mode menu selections - Acquire New System, Search for System, and View Stored Systems.

Acquire New System | Menu Shortcut |



The phone automatically searches or scans for the first available private network system by pressing  **7PQRS** . The following message is displayed:

Search in Progress...

If a system is located, the phone returns to the standby state with the private system's descriptive name or label displayed. The private system is now available for use and is stored into the phone system database. If a system is not located, the following message is displayed:

No Systems Found

Press **CLR** to exit the acquire new system selection.

Search for System | Menu Shortcut |

[F7] [F8] [2 ABC]

You can set your phone to manually search for available private network systems by pressing **[F7] [F8] [2 ABC]**. The following message is displayed:

Search in Progress...

If systems are located, the phone displays a list of the available systems. Use **[Up]** to scroll through the list; press **END** to save the selected system. The phone returns to the standby mode with the private system's descriptive name or label displayed. The private system is now available for use and is stored in the phone system database. If no systems are located, the following message is displayed:

No Systems Found

Press **CLR** to exit the search for system selection.

View Stored Systems | Menu Shortcut |

[F7] [F8] [3 DEF]

System information of each located private system is stored in the phone system database. The contents of the database can be viewed by pressing **[F7] [F8] [3 DEF]**. A list of the systems is displayed. Use **[Up]** to scroll through the list; press **END** to exit the database. If there is no information stored in the database, the following message is displayed:

DataBase Empty Press CLR

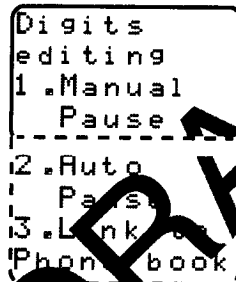
Press **CLR** to exit the view stored systems selection.

8. Digits Editing

Menu Shortcut



The Digits Editing Menu can be accessed by pressing . The Digits Editing Menu is displayed below.



Press  to scroll through and view the entire Digits Editing Menu

Automated telephone systems prompt you through a recorded message to enter a set or sets of identifying numbers such as a credit card account number, bank account number, or personal identification number. You can use your phone to easily dial or store multiple sets of numbers, for accessing automated systems, by separating the sets of digits with indicators referred to as pause marks. Pause marks alert your phone to wait or pause before sending the remaining sets of digits. There are two types of pause marks: manual and automatic. The two types are described below.

Manual Pause

Menu Shortcut



When entering the digits of an automated system telephone number and any additional strings of numbers needed to communicate with the system, you can insert manual pauses between the sets of digits. To enter manual pause marks, enter in the telephone number; press . A "P" is displayed after the phone number. Enter in the next set of digits. If necessary, press  to insert another manual pause and then enter in the next set of digits. When the automated system telephone number is dialed, your phone waits to transmit the sets of numbers following a manual pause mark. The following message is displayed:

Press SEND For Manual Pause Dial

As prompted by the automated system, press  to send the next set of digits. Continue to press  to send any remaining sets of digits.

Auto Pause | Menu Shortcut |

8TUV 2ABC

An automatic pause can be inserted between sets of digits in a similar manner as manual pauses. To enter automatic pause marks, enter in the telephone number; press 8TUV 2ABC. A "," (comma) is displayed after the phone number. Enter in the next set of digits. If necessary, press 8TUV 2ABC to insert another automatic pause and then enter in the next set of digits. When the automated system telephone number is dialed, your phone waits approximately three seconds at each automatic pause mark and then automatically transmits the remaining sets of digits.

Link to Phone Book | Menu Shortcut |

8TUV 3DEF

If the total number of digits needed to access an automated telephone system exceeds the maximum 26 digits that can be transmitted at one time (or stored in each phone book location), the phone number can be entered and then linked to a phone book location containing the remaining strings of numbers. To link a phone number to a phone book record location, key in the phone number and press 8TUV 3DEF; an "L" is displayed. Enter the phone book location (1-99) containing the applicable information. Press SEND to dial the phone number. After the phone number is dialed, the following message is displayed indicating that the remaining sets of digits must be sent manually by pressing SEND.

Press SND For Manual Pause Dial

9. Mute | Menu Shortcut |

9WXYZ

The Mute Menu can be accessed by pressing 9WXYZ during a conversation. The Mute Menu is displayed below.

```
Set mute
1.Mic Mute
2.All Mute
3.Unmute
```

Mic Mute | Menu Shortcut |

9WXYZ 1END

The phone microphone can be turned off or muted during a conversation. With a call in progress, press 9WXYZ 1END. Press 9WXYZ 3DEF to turn on the microphone again.

All Mute | Menu Shortcut |

The phone microphone and earpiece can be turned off or muted during a conversation. With a call in progress, press

. Press to turn on the microphone and earpiece again.

Unmute | Menu Shortcut |

The microphone mute and full mute settings can be cancelled by pressing .

0. Phone Lock | Menu Shortcut |

Your phone can be locked to prevent unauthorized use. To lock your phone, press . As prompted, enter your 4-digit password. The Phone Lock menu is displayed.

Phone Lock
1 .Full
2 .Partial
3 .Unlock

Press to completely lock your phone and restrict the ability to place calls; only calls to an emergency number (such as 911) can be dialed. Press to exit the lock menu. When the phone is set to full lock, the full lock icon () is displayed.

Press to partially lock your phone and limit the ability to place calls; only calls to an emergency number (such as 911) and the one-touch, speed-dial phone numbers stored in phone book locations 1-9 can be placed. (Note that the one-touch dialing selection must be turned on to speed dial phone numbers; see "One-Touch Dialing" on page 24 for information on activating one-touch dialing.) With the phone set to partial lock, text messages can also be received and viewed; however, callback phone numbers provided in text messages cannot be dialed. Press to exit the lock menu. When the phone is set to partial lock, the partial lock icon () is displayed.

To unlock the phone, press . As prompted, enter your 4-digit password. Press to unlock your phone; press to exit the lock menu. If the phone is unlocked, neither the full lock icon () nor the partial lock icon () is displayed.

Chapter 4: Safety & Performance

Safety Precautions

For safe and efficient operation of the phone, observe the following guidelines.

The cellular telephone is a radio transmitter and receiver. When the unit is powered on, the phone receives and sends radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 894 MHz, and employs commonly used frequency modulation (FM) techniques. When the phone is in use, the cellular system handling the call controls the power level at which the phone transmits. The power level can range from 0.006 watt to 0.6 watt.

Exposure to Radio Frequency Energy

In 1991, the Institute of Electrical and Electronics Engineers (IEEE) and in 1992, the American National Standards Institute (ANSI) adopted a standard for safe levels of human exposure to RF energy. Approximately 120 scientists, engineers, and physicians from universities, government, and industry developed the standard. In March 1993, the Federal Communications Commission (FCC) proposed the adoption of the standard. The design of your phone complies with the updated standard. RF exposure can be further limited by controlling the duration of calls and operating the phone in a power efficient manner.

Efficient Phone Operation

Extend the antenna fully to operate at the lowest power level possible. Calls can be sent and received with the antenna retracted; however, the phone operates more efficiently with the antenna fully extended. Hold the cellular phone in the same manner as a standard telephone is held. While speaking directly into the mouthpiece, position the antenna up and over your shoulder. Do not hold the antenna when the phone is in use. Holding the antenna affects call quality and may cause the phone to operate at a higher power level than is necessary.

Antenna Care and Replacement

Do not use a phone with a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn could result. Replace a damaged antenna immediately with a manufacturer-approved antenna. Use only an NEC supplied or approved antenna. Unauthorized antennas, modifications, or attachments could damage the phone and could violate FCC regulations.

Driving

Obey the laws and regulations on the use of cellular telephones while driving. When using your phone while driving:

- Give full attention to driving.
- Pull off the road and park before making or answering a call if driving conditions require additional caution.

Electronic Devices

Most modern electronic equipment is shielded from RF energy; however, RF energy from cellular telephones may affect some inadequately shielded electronic equipment. RF energy may affect improperly installed or inadequately shielded electronic operating and entertainment systems in motor vehicles. Check with manufacturers or manufacturers representatives to determine if systems are adequately shielded from external RF energy. Consult the manufacturer of any personal medical devices (for example, pacemakers and hearing aids) to determine if the devices are adequately shielded from external RF energy. Turn off the phone in health care facilities when any regulations posted in the area forbid use of electronic devices. Hospitals or health care facilities may be using equipment sensitive to external RF energy.

Aircraft

- Turn off the phone before boarding any aircraft.
- While the plane is on the ground, receive approval from the airline crew prior to using the cellular phone.
- Do not use the phone while the plane is in the air.

To prevent possible interference with aircraft systems, Federal Aviation Administration (FAA) regulations require airline crew permission prior to phone usage. To prevent interference with cellular systems, FCC regulations prohibit using the phone while an aircraft is in the air.

Children

Do not allow children to play with the phone; the phone is not a toy. Children could hurt themselves or others. In addition, children could damage the phone or make calls that result in an increase to the phone bill.

Blasting Areas

To avoid interfering in construction projects, turn off the phone when in a blasting area or in areas posted: "Turn Off Two-Way Radio." Construction crews often use remote control RF devices to set off explosives.

Air Bags

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

Potentially Explosive Atmospheres

Turn off the phone in an area with a potentially explosive atmosphere. Although it is rare, the phone or its accessories could generate sparks. Sparks in certain areas could cause an explosion of fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are usually, but not always, clearly marked. Potentially explosive areas include fueling areas such as gas stations, below deck on boats, and fuel or chemical transfer and storage facilities. Additional areas are atmospheres with chemicals or particles in the air such as grain, dust, or metal powders; and any area where it is advised to turn off the vehicle engine.

Do not transport or store flammable gas, liquids, or explosives in the same compartment that contains the phone or its accessories.

Vehicles using liquefied petroleum gas, such as propane or butane, must comply with the National Fire Protection Standard (NFPA-58). For a copy of the standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

Pacemakers

Research sponsored by Wireless Technology Research (WTR) indicates that some wireless telephones cause interference with pacemakers. NEC America, Inc., endorses the following recommendations:

- Wireless phones should be kept at a safe distance from a pacemaker. Existing data indicate that the greater the distance between a pacemaker and a wireless phone, the less the risk of interference. The data further indicates that six inches is the proper separation distance for minimal risk.
- Practical steps to achieve the recommended separation distance include not placing a wireless telephone in the area over the pacemaker, such as a shirt pocket, when the phone is powered on. (The unit is considered on when power is being supplied to the phone by the battery.) Another practical step is to listen into the phone using the ear opposite the location of the pacemaker.
- Note that no comprehensive data indicates that bystanders with pacemakers are at risk of interference from another person operating a cellular phone.

Phone Performance

Technical Information

Dimensions (without antenna)	133 x 46 x 24mm " x " x "
Weight	152g (Li-Ion battery)
Transmitting Power	0.6 W max. ERP
Operating Voltage	3.6V
Cellular Frequency Band	824.01 - 849.970 MHz (TX) 869.01 - 893.970 MHz (RX)
PCS Frequency	188.001 - 1909.95 MHz (TX) 193.005 - 1989.99 MHz (RX)
Standard Battery Capacity	800 mAh ??? (NiMH) 1050 mAh??? (Li-Ion)
Number of Channels	832
Memory Locations	99
Memory Capacity	26 numeric digits per location 10 letters per location

Battery Care & Disposal

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; they must not be disposed of in municipal waste. Contact local waste management officials for information on the environmentally sound collection, recycling, and disposal of batteries.

Chapter 5: Warranty & 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), Wireless Communications Division Authorized Dealer (the "Dealer") in the United States on or after January 1, 1997, may be covered by this warranty:

[DIGITALTALK NEX 2600 CELLULAR TELEPHONE]

2. What Does This Warranty Cover?

NECAM warrants to the original end user Product purchaser ("You") that the Product will conform to the applicable published specifications in effect at the time of shipment from NECAM to the Dealer, and that the Product 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 Warranty Begin?

The warranty period will begin on the date You purchase the product. Valid 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 or Mechanical Serial Number for transceivers and boosters.

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 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) 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;
- (iii) Defects caused by components, parts, or accessories not compatible with the warranted Product, or;
- (iv) Products whose warranty/quality labels, product serial number plates or electronic serial numbers have been removed, altered, or rendered illegible, or;

- (v) Accessory items such as antenna, cables, curl cords, cases, etc., or;
- (vi) 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 limited to the duration of this warranty. 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.
- (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, loss of time, loss of use, loss of business, loss of data, loss of 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 an NEC Authorized Service Center 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 (972) 751-7500, or by writing to: NEC America, Inc., Attention: Service Support & Administration, 1621 Walnut Hill Lane, Irving, Texas, 75038. 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.

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.

REV: LW012097

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 telephone number or address.

Telephone:

1-800-637-5917*
1-972-751-7500

Writing:

NEC America, Inc.
Service Support
1621 Walnut Hill Lane
Irving, Texas 75038

*The 800 number listed above also provides access to NEC Repair Service and Parts Sales.

NEC Wireless Marketing

NEC Wireless Marketing can be contacted at the following address or telephone number.

Telephone:

1-800-421-1141

Writing:

NEC America, Inc.
Wireless Marketing Division
1621 Walnut Hill Lane
Irving, Texas 75038

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LICENSED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS

4,954,951	4,942,516	4,896,260	4,829,419	4,825,364	4,686,622	4,531,182
4,396,976	4,371,923	4,121,284	4,120,583	4,435,732	4,471,385	4,672,457
4,739,396	4,675,863	4,817,069	4,912,705	5,022,024	5,121,391	

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