

**DRAFT**

**N**  
**DigitalTalk™**  
**NEX Series 3200**  
**Owner's Manual Draft**

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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. For additional information on over-the-air activation, see "Over-Air Activate" on page 12.

### Phone Safety & Performance

Prior to operating your cellular phone, please read this manual thoroughly including "Chapter 5: Safety Information" on page 36.

### Voice Mail Messaging & Text Messaging

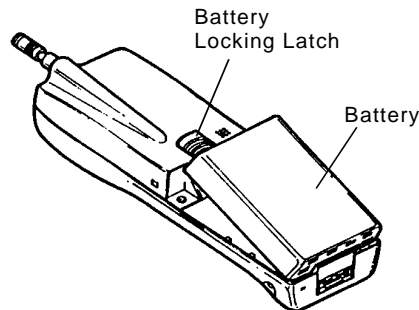
Voice mail messaging and text messaging services, when available, are provided by your cellular service provider. Before you can receive either voice or text messages with your phone, you must subscribe to these cellular service provider options. Contact your cellular service provider for information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

### 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" on page 3 and "Battery Disposal" on page 3 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 and Recharging the Battery

The DigitalTalk 3200 telephone accepts either the 4.8 V Nickel-Cadmium (NiCd) battery or Nickel-Metal Hydride (NiMH) battery. A new battery must be fully charged before being used for the first time.

### To charge using the Standard Charger Adapter Only:

1. Insert the AC adapter into a standard 110 V AC outlet.
2. Insert the adapter plug into the jack located on the side of the phone. The red LED indicator on the top right corner of the phone is on during charging and then turns off when charging is complete. The red LED indicator also occasionally flashes during the charging process.

### To charge using the Standard or Rapid Charger Adapter and Charging Stand:

1. Plug the AC adapter into a standard 110 V AC outlet.
2. Insert the AC adapter plug into the jack on the charging stand.
3. Place either the phone with battery connected or battery pack only upright in the charging stand, making sure that the battery charging contacts on the bottom of the battery align with the contacts on the charging stand. A red light on the charging stand illuminates to indicate proper seating of the battery pack. The red light indicator turns off when the battery is charged.

NiMH and NiCd Battery Charging Times		
	<u>With Standard Charger</u>	<u>With Rapid Charger</u>
NiMH	7 hours	2 hours
NiCd	6 hours	1.5 hours

A fully charged NiMH battery provides approximately **170** minutes of talk time in the digital mode and **75** minutes of talk time in the analog mode.

## Battery Level Indicator

The Battery Level indicator displays in standby, dial, and conversation modes. The Battery Level indicator is visible to the right of center of the display. (Please see "I. Battery Indicator:" on page 6). When the battery falls to a preset level, the empty battery indicator flashes on and off to signal a low battery. The low battery alert tone sounds and "RECHARGE BATTERY" displays on the screen. You may press **Proceed** to continue using the phone; however, in Conversation Mode, this continuation is brief.

The remote power indicator replaces the battery indicator on the display when the phone is operating on external power or charging. The red LED in the upper right corner of the phone face also illuminates while the phone is charging.

## Phone Care and Maintenance

Your DigitalTalk 3200 is a product of superior design and craftsmanship, and should be treated with care. The suggestions below will help you enjoy this product for many years. Keep it dry. (Water contains minerals that will corrode electronic circuits.) Avoid all liquid spills. **Any form** of liquid will cause permanent damage to your phone.

Do not store the phone in a hot area. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

Do not drop it. This might cause permanent damage. The internal circuit boards can be broken.

Do not use or store in dusty, dirty areas. This will cause permanent damage in moving parts.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it.

Wipe it with a soft cloth (slightly dampened) in a mild soap-and-water solution. If the unit is not working properly, take it to your nearest authorized dealer. The personnel there will assist you, and, if necessary, arrange for service.

## Battery Care

For best results, follow these precautions:

- Do not allow the battery to discharge completely, as this may damage the battery.
- Before storing the phone for two weeks or more, remove the battery pack from the phone and store it in a cool, dry place.
- The battery pack is a sealed unit with no serviceable parts inside. Do not attempt to open the case.

## Battery Disposal

DO NOT DISPOSE OF USED BATTERIES IN THE REGULAR TRASH. NICKEL-CADMIUM (NiCd) BATTERIES MUST BE COLLECTED, RECYCLED, OR DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER.



The incineration, landfilling, or mixing of these batteries with any municipal solid waste stream is **PROHIBITED BY LAW** in most areas.

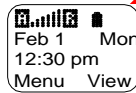
Return this battery to a federal or state-approved NiCd ("sealed lead") or NiMH battery recycler. This may be where you purchased the battery or a local seller of automotive batteries. In all states, call 1-800-822-8837, except in Minnesota. For disposal information in Minnesota, call 1-800-225-PRBA. Contact local waste management officials for further information regarding the environmentally sound collection, recycling, and disposal of this battery.

## Chapter 2: Basic Operation

### Controls and Features

#### Turning On the Phone

- Press and hold the **PWR** key down for approximately two seconds to turn on the phone. The following screen appears:



#### Turning Off the Phone

- Press and hold down the **PWR** key for approximately two seconds to turn off the phone. The "POWER DOWN TIME" message displays on the screen.

## Making a Call

1. Key in the phone number.  
**Note:** If you make a mistake, press the **CLR** key briefly to delete the last keystroke (as you would use a backspace); or press and hold the **CLR** key to clear the whole display.
2. Press **SEND**.
3. Press **END** to end the call.

## Receiving a Call

1. Press **SEND** to answer an incoming call. An incoming call is indicated by the phone ringing, "CALL" flashing on the display, and the alert indicator flashing.
2. When you have finished your conversation, press **END**.

## Time and Date

When the phone is on in digital service areas, it automatically displays the local time and date received through the network. In analog only service areas, the phone automatically uses its internal clock to display the time and date. If you need to set the clock time and date, refer to "Clocks" on page 11.

## Last Number Redial

To automatically redial the last number called:

- Press **SEND**. The phone displays and redials the last phone number called when the one-touch option is set to Call.
- If the one-touch option is not set to call, the last number dialed is displayed when **SEND** is pressed. Review the number, apply dialing options (**Opts**), or press **SEND** again to connect the call.

## Viewing Your Phone Number

To view your phone number:

1. Press **View 4 (Own Phone Number)**. The screen displays the current NAM and the associated phone number.
2. Press **Return** or press **CLR** to return to the Standby mode.

## Using the Phone Book

The Phone Book stores up to 99 entries. By accessing information stored in your phone book, you can place calls quickly. You can access the phone book using one of the following methods:

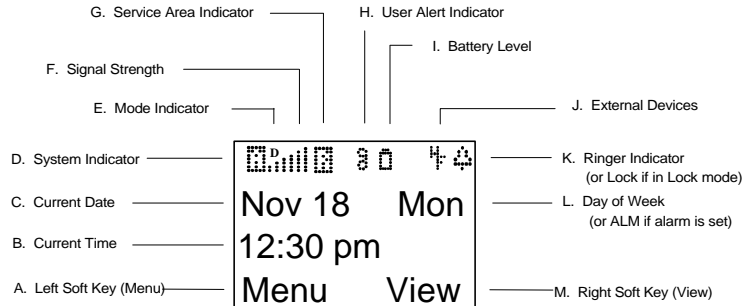
- Press and hold the **View** key to access the Phone Book in one step.
- Press **View 3 (Phone Book)**.
- Press and hold **3** (Phone Book Shortcut key) to access the Phone Book in one step (only if "One-Touch" is turned on).

For more information on using the Shortcut keys, please see "One-Touch" on page 16.

To save names and numbers to the phone book:

1. Enter the phone number to store in the phone book.
2. Press the **Save** soft key.
3. Select **Auto** for the phone to find the next empty location or **Manual** to enter the memory location. If **Manual** is selected, the phone displays "Loc Free" if that location is empty (otherwise, the name stored in the location is displayed). Use the arrow keys or **Next** to scroll through the list and find an empty location.
4. Select **OK** to save.
5. To add a name associated with the phone number, press **Now**. Enter the characters of the name using the phone keys; press **Opts 3** to save.

## Standby Mode Display Indicators



**A. Main menu (Left Soft Key):**  
Press **Menu** to access Menu options.

**B. Current Time:**  
Displays hours, minutes, a.m./p.m. when set.

**C. Current Date:**  
Displays abbreviated month and date.

**D. System Indicator:**  
A or B

**E. Mode Indicator:**  
[Digital Icon] if Digital, blank if Analog

**F. Signal Strength:**  
(updated every 2 seconds)  
Minimum = 0 dB  
Maximum = 35 dB

**G. Service Area Indicators:**  
[Home Icon] Home  
[Roam Icon] Roam

**H. User Alert Indicators:**  
[Message Pending Icon] Message Pending  
[Replies Pending Icon] Replies Pending  
[Voice Mail Pending Icon] Voice Mail Pending  
[Missed Calls Icon] Missed Calls

**I. Battery Indicator:**

Full Empty

The Empty Battery icon flashes to signal low battery.

External Power/Charging: [Charging Icon] (Phone plugged into outlet or vehicle adapter.)

**J. External Devices:**  
[Modem Icon] Modem or other device  
[Hands Free Icon] Hands Free

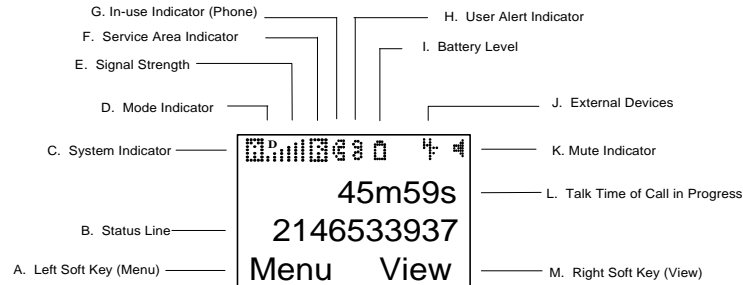
**K. Ringer Indicator [Ringer Icon] or Auto Answer [Auto Answer Icon]:**  
Lock icon [Lock Icon] overrides in Lock Mode. This icon changes for different user states.

**L. Day of the Week, or "ALM" if Alarm is set**

**M. View Key Indicator:**  
Press the View Key to access View options when View is displayed.



## Conversation Mode Display Indicators



### A. Main menu (Left Soft) Key

**B. Status Line contents:**  
Displays phone number of connected party

**C. System Indicator:**  
A or B

**D. Transmission Mode Indicator:**  
 if Digital, blank if Analog (same as in Standby mode)

**E. Signal Strength (same as in Standby mode)**

**F. Service Area Indicators**  
 Home  
 Roam

**G. In-Use Indicator (Phone):**

**H. User Alert Indicators:**  
 Message Pending  
 Replies Pending  
 Voice Mail Pending  
 Missed Calls

**I. Battery Level (same as in Standby mode)**

**J. External Devices:**  
 Modem or other device  
 Hands Free

**K. Mute Indicator shows Mute status as follows:**  
**Microphone Mute:** Speaker icon displays.  
**No Mute:** Alternate display of Speaker icon and Microphone icon every two seconds.  
**On Hold:**   
**Autodial:**

**L. Talk Time of Call in Progress:**  
Displays shortly after call is sent and updates every second; disappears when you press CLR or either soft key after the call is ended.

**M. View Key Indicator:**  
Press View to access View options.

## Chapter 3: Menu Navigation and Overviews

### Soft Keys

Soft keys are keys or buttons that perform different functions depending on the current operational status of the phone or current menu accessed. The soft keys current functions appear on the bottom line of the display above each of the two soft keys. The left soft key is the **Menu** key when the phone is in standby or during a conversation. The **Main Menu** is used to review and/or change the phone settings and capabilities. (See "Main Menu Overview" on page 9 for features accessed through the **Main Menu**.) The right soft key is the **View** key when the phone is in standby or during a conversation. The **View Menu** provides access and review of information that changes as the phone is used, such as phone book names and numbers, messages, and call activity. (See "View Menu Categories" on page 20 for information on the **View Menu** contents.)

### Scroll Key

In addition to pressing the soft keys, the scroll key can be used to scroll through the menu items, Phone Book information, or messages.

1. The down arrow scrolls menu pages forward.
2. The up arrow scrolls menu pages backward.
3. Hold down the key for repeat scrolling.

### Clear Keys

Press **CLR** to return to the previous screen or press and hold **CLR** to return directly to the standby mode. While in editing functions, this key is used to erase incorrectly entered characters (like a backspace key).

### User Prompts

The following prompts, displayed in the upper right corner of the screen, provide editing and navigating assistance within menus.

# - Enter digits

α - Enter alphanumeric data

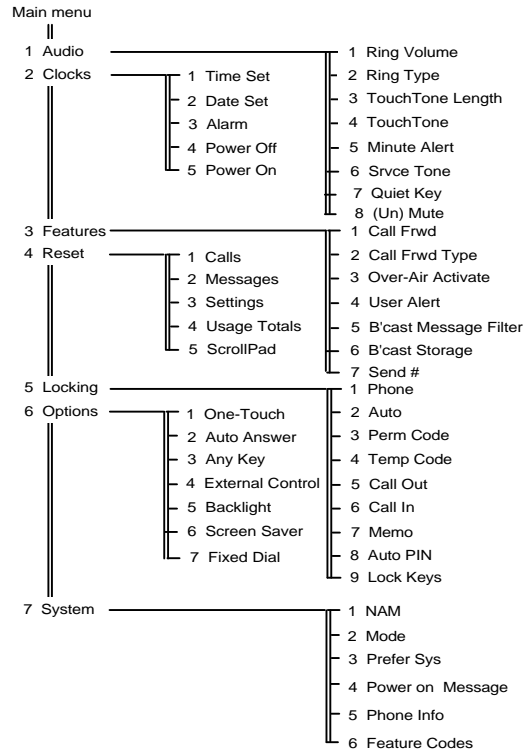
▲ - Scroll forward to the next menu page.

▼ - Scroll back to the previous menu page.

↕ - Scroll forward or back within a menu.

## Main Menu Overview

This menu is accessible in Standby and Conversation Modes. Use this menu to program the phone and change settings.



## Audio

### 1 Ring Volume

The ring volume selection is used to set the incoming alert volume. The ring volume selection adjusts the ring volume of incoming call alerts, alert tones for messages and pages, service tones, and the alarm clock.

1. Press **Menu 1 1 (Audio - Ring Volume)**.
2. Press **Next** to hear each ring volume level selection.
3. Press **OK** to save the desired setting.
4. Press **CLR** to exit the audio submenu.

### 2 Ring Type

The ring type selection is used to set the incoming call alert ring.

1. Press **Menu 1 2 (Audio - Ring Type)**.
2. Press **Next** to hear each ring type selection.
3. Press **OK** to save the desired setting.
4. Press **CLR** to exit the audio submenu.

### **3 Touch Tone Length**

When the touch tones (DTMF signals) are on, the duration of the tones can be set to short or long. Short tones make a sound for a fixed duration regardless of how long you hold the key down.

- Long tones make a sound while you hold down the key (up to two seconds). There may be some automated systems that require the tone length to be set to long.

To select the touch tone length:

1. Press **Menu 1 3 (Audio - DTMF Type)**.
2. Press **Next** to toggle between Short and Long.
3. Press **OK** to save.

### **4 Touch Tone**

With the touch tone selection set to on, numbers can be sent and received with the phone in the conversation mode.

To turn the Touch Tone selection on or off:

1. Press **Menu 1 4 (Audio - Touch Tone)**.
2. Press **Next** to toggle touch tones on or off.
3. Press **OK** to save.

**Note:** Turning on the Quiet Key turns off the touch tones. Numbers sent as touch tones from secure locations in the Phone Book, however, automatically transmit without keytone feedback.

### **5 Minute Alert**

When the minute alert selection is turned on, an alert sounds every 60 seconds through the earpiece during a conversation. The selection can be turned on or off with the phone in either the standby mode or the conversation mode.

To set the minute alert:

1. Press **Menu 1 5 (Audio - Call Tone)**.
2. Press **Next** to toggle Call Tone on or off.
3. Press **OK** to save.

### **6 Service Tone**

When the service tone selection is activated, an alert tone sounds whenever there is a service change, including:

- System change (A/B)
- Status change from service to no service status or from no service to service
- Loss of service such as a dropped call
- Network system change from analog to digital or from digital to analog

To activate the service tone setting:

1. Press **Menu 1 6 (Audio - SrvceTone)**.
2. Press **Next** to toggle Service Tone on and off.
3. Press **OK** to save.

1. Press **Menu 1 6 (Audio - SrvceTone)**.
2. Press **Next** to toggle Service Tone on and off.
3. Press **OK** to save.

### **7 Quiet Key On/OFF**

The Quiet Key On/Off selection toggles the key tone on or off.

To turn on or off the quiet key:

1. Press **Menu 1 7 (Audio - Quiet Key)**.
2. Press **Next** to toggle Quiet Key on and off.
3. Press **OK** to save.

### **8 Mute/(Un)Mute**

The Mute/Unmute selection toggles the microphone on or off when the phone is in the conversation mode.

1. Press **Menu 1 8 (Audio - Mute)**.
2. Press **Next** to toggle microphone on and off.
3. Press **OK** to save.

## **Clocks**

### **1 Time Set**

1. Press **Menu 2 1 (Clocks - Time)**. Enter the hour.
2. Press **Next**.
3. Enter the minutes.
4. Press **Next**.
5. Press **am** or **pm** to toggle a.m. or p.m.
6. Press **Next** to display the **OK** command.
7. Press **OK** to save.

### **2 Date Set**

1. Press **Menu 2 2 (Clocks - Date)**.
2. Enter the month.
3. Press **Next**.
4. Enter the day.
5. Press **Next**.
6. Enter the year.
7. Press **Next** to display the **OK** command.
8. Press **OK** to save.

### **3 Alarm**

The phone can be used as an alarm clock by setting the alarm selection to the desired alarm time. Note that the alarm only sounds at the set time; the alarm does not sound at the set time every day unless the alarm is reset each day.

To set the Alarm:

1. Press **Menu 2 3 (Clock - Alarm)**.
2. If the desired alarm time is already displayed, press **Set**.

OR

- If the desired alarm time is not displayed, press **On**. Enter the hour; press **Next**. Enter the minutes.; press **Next**. Press **am** or **pm** to toggle a.m. or p.m.; press **Next** to display the OK command.
3. Press **OK** to save.

#### **4 5 Auto Power Off/On**

The automatic power off/power on selections enable the phone to power off or power on automatically at a specified time each day. These settings are used to extend battery life if the phone is not being recharged. The selection can be set for the phone to automatically power off at night when the phone is not in use, and then automatically power on again in the morning.

To set Auto Power Off/On:

1. Press **Menu 2 4 (Clock - Power Off)** or **Menu 2 5 (Clock - Power On)**.
2. If the desired auto power off/on time is already displayed, press **Set**.  
OR  
If the desired auto power off/on time is not displayed, press **On**. Enter the hour; press **Next**. Enter the minutes.; press **Next**. Press **am** or **pm** to toggle a.m. or p.m.; press **Next** to display the OK command.
3. Press **OK** to save.

### **Features**

#### **1 Call Forward**

The Call Forward selection forwards calls to a specified phone number or to voice mail, or deactivates call forwarding.

To turn Call Forwarding on or off:

1. Press **Menu 3 1 (Features - Call Forwarding)**.
2. Press **Next** to select Phone Number, Voice Mail, or Off.
3. Press **OK** to select the setting. The phone displays an asterisk (\*) followed by a 2-digit or 3-digit call forwarding prefix code.
4. Press **SEND** to activate call forwarding.  
**Note:** Calling Codes such as Call Forwarding, Block Caller I.D., Cancel Call Waiting, etc., may vary from market to market and require that the codes the phone provides be edited before use. Contact the local wireless carrier to get the correct Calling Codes.

#### **2 Call Forward Type**

The call forward type selection sets the call forwarding feature to Busy/No Answer, Always, Busy, or No Answer.

To select the Call Forward Type:

1. Press **Menu 3 2 (Features - Call Forward Type)**.
2. Press **Next** to select Busy/No Ans, Always, Busy, or No Answer.
3. Press **OK** to accept the setting.
4. Press **CLR** to save.

#### **3 Over-Air Activate**

The over-the-air activation selection automatically activates the phone with the wireless phone network service. Over-the-air activation is dependent on the network capability. Please check with your network service provider for availability.

To activate the system:

1. Press **Menu 3 3 (Features - Over-Air Activate)**.
2. Press **Next** to select System A or B.
3. Press **Next** while viewing the "Save NAM" display to toggle between NAM 1 and NAM 2 before making the selection.
4. Respond to the screen prompt to assign the phone number to the NAM by pressing **OK**.
5. Press **OK** to begin activation.
6. Wait for the phone number to display then press **Proceed**.

For information on selecting a NAM, see "NAM Selection" on page 18.

#### **4 User Alert**

The user alert selection can be used to turn on or off the display of user alerts. (See "H. User Alert Indicators:" on page 6 to view alert indicators.) These silent alerts display on the screen in the standby mode to signal the receipt of new messages, pages, voice mail, and/or missed calls.

To turn the User Alert indication on or off:

1. Press **Menu 3 4 (Features - User Alert)**.
2. Press **Next** to toggle User Alert on or off.
3. Press **OK** to save.

#### **5 B'cast (Broadcast) Message Filter**

The broadcast message filter selection can be set to filter broadcast messages for Emergency and/or Normal status. "Emergency" allows only emergency broadcast messages to be received; "Normal" allows all broadcast messages to be received.

To set the broadcast message filter:

1. Press **Menu 3 5 (Features - Broadcast Message Filter)**.
2. Press **Next** to toggle between Normal or Emergency.
3. Press **OK** to save.

For more information on filtering messages, see "Broadcast Message Filter" on page 34.

#### **6 B'cast (Broadcast) Storage**

The broadcast storage selection can be set to either on or off.

To toggle the storage option on or off:

1. Press **Menu 3 6 (Features - Broadcast Message Storage)**.
2. Press **Next** to toggle storage on or off.
3. Press **OK** to save.

For more information on storing messages, see "Broadcast Message Storage Option" on page 34.

#### **7 Send #**

The Send # selection provides the option of sending numbers as touch tones (DTMF signals) from the phone book or a linked number.

This function is available only during a conversation with Touch Tone set to on (see "Touch Tone" on page 10). The touch tones can be sent by using either of the following options:

1. With a conversation in progress, press **Menu 3 7 (Features - Send #)**.
2. Enter the memory location.
3. Press **OK** to save.

??? or Recall a number from the phone book. Press **Menu 3 7** to send the number such as the voice mail pin number.

### **Reset**

The Reset menu allows you to clear calls, messages, settings, usage totals, and the scrollpad.

#### **1 Calls**

The calls selection clears all stored calls except any pending or missed calls.

To clear calls:

1. Press **Menu 4 1 (Reset - Calls)**.
2. Enter the pass code if requested.
3. Press **OK** to clear all non-pending calls.
4. Press **Quit** to exit.

## **2 Messages**

The messages selection clears all stored messages except any pending (not read) or locked messages.

To clear messages:

1. Press **Menu 4 2 (Reset - Messages)**.
2. Enter the pass code if requested.
3. Press **OK** to clear all messages you have reviewed.

## **3 Settings**

The settings selection resets all user settings in the Main menu to the factory default settings.

To reset the phone:

1. Press **Menu 4 3 (Reset - Phone)**.
2. Enter the pass code.
3. Press **OK** to reset the phone.

## **4 Usage Totals**

The usage totals selection clears the talk time counters.

To clear the talk time counters:

1. Press **Menu 4 4 (Reset - Usage Totals)**.
2. Press **OK** to clear all talk times.

## **5 Scrollpad**

The scrollpad selection clears any information stored in the scrollpad.

To erase all information from the scrollpad:

1. Press **Menu 4 5 (Reset - Scrollpad)**.
2. Press **OK** to clear the scrollpad contents.

## **Locking**

The Locking menu allows you to protect certain settings from unauthorized use. To bypass a locked feature, enter the permanent pass code when prompted.

### **1 Phone**

The phone selection locks the phone with a 4-digit lock code to prevent unauthorized operation. Unlocking the phone unlocks all phone features, except the Call Out, Call In, and Memo options.

To lock the phone:

1. Press **Menu 5 1 (Locking - Phone)**.
2. Press **Menu** to toggle lock on or off.
3. Press **OK** to save the new setting or press **Quit**.

For information on keypad locking, refer to "Lock Keys" on page 16.

### **2 Auto**

Auto Lock automatically sets the phone to a locked, secured status when the phone is turned on.

To turn on or off the auto lock setting:



1. Press **Menu 5 2 (Locking - Auto)**.
2. Press **Menu** to toggle Auto Lock on or off.
3. Press **OK** to save the new setting or press **Quit**.

### **3 Perm Code**

The perm code selection allows you to change your permanent 4-digit pass code number to a new 4-digit number.

To enter a new permanent pass code:

1. Press **Menu 5 3 (Locking - Perm Code)**.
2. Enter your current Pass Code if requested.
3. Enter the new Pass Code.
4. Press **OK** to save or press **New** to enter a different pass code.
5. To cancel and keep the previous pass code, press **CLR**.

### **4 Temp Code**

The temp code selection allows you to set a temporary 3-digit pass code to provide phone locking/securing capability for another person using your phone without having to reveal your permanent 4-digit pass code. The temporary lock code should not consist of the same 3 digits that were used for the permanent lock code.

To enter the temporary pass code:

1. Press **Menu 5 4 (Locking - Temp Code)**.
2. Enter the 4-digit, permanent pass code if requested.
3. Enter a 3-digit temporary pass code.
4. Press **OK** to save; **CLR** to quit the code change, keep the previous Pass Code and return to the previous screen; or **New** to see the previous Pass Code and enter a different one.

### **5 Call Out**

The call out selection restricts outgoing calls by requiring entry of the pass code before an outgoing call can be sent.

1. Press **Menu 5 5 (Locking - Call Out)**.
2. Enter the pass code if requested.
3. Press **Next** to toggle Call Out on or off.
4. Press **OK** to save the new setting or **CLR** to cancel.

### **6 Call In**

The call in selection restricts incoming calls by requiring entry of the pass code before an incoming call can be received.

1. Press **Menu 5 6 (Locking - Call In)**.
2. Enter the pass code if requested.
3. Press **Next** to toggle Call In on or off.
4. Press **OK** to save the setting or press **CLR**.

### **7 Memo (Lock)**

The memo lock selection requires a pass code before displaying phone numbers and messages for reviewing, editing, or storing. In Read Only mode, the phone displays messages but does not allow editing or deleting of messages.

To secure stored phone numbers and messages:

1. Press **Menu 5 7 (Locking - Memo)**.
2. Enter the pass code if requested.
3. Press **Next** to toggle between off, read only, or on.
4. Press **OK** to save the setting or press **CLR** to cancel.

## 8 Auto PIN

The auto pin selection provides security by automatically transmitting a PIN number after the phone number (in analog mode when required by your service provider) without sounding touch tones (DTMF signals) or displaying the digits on the screen.

To turn on or off the Auto PIN option:

1. Press **Menu 5 8 (Locking - Auto PIN)**.
2. Enter the pass code if requested.
3. Press **Next** to toggle AutoPIN on or off.
4. Press **OK** to save the setting or press **CLR** to cancel.

For information on Transmission Mode Selection, see "Mode Selection" on page 18.

## 9 Lock Keys

The Lock Keys selection prevents accidental dialing by locking the keypad.

- Press **Menu 5 9** to select the Lock Keys option.
- Enter **1 2 3** to unlock the keypad.

For additional phone locking capabilities, see "Locking" on page 14.

## Options

### 1 One-Touch

One-Touch allows you to change what happens when you press and hold the 1-9 keys. This selection provides modes for Call, Recall, or View, and turns One-Touch on or off.

- Call retrieves the number stored in its Phone Book location and dials it.
- Recall retrieves the number stored in its location, but does not dial it.
- View displays the information associated with the icons on each key. In the View mode, press and hold the digit key to access the corresponding View menu option. For example:

 **2 Call History** shortcut.

 **3 Phone Book** shortcut.

 **4 Own Phone Number** shortcut.

 **5 Total Usage** shortcut.

 **7 Scrollpad** shortcut.

 **8 Messages History** shortcut.

To set the One-Touch option:

1. Press **Menu 6 1 (Options - One-Touch)**.
2. Press **Next** to select Call, Recall, View, or Off.
3. Press **OK** to save.

### 2 Auto Answer

The auto answer selection turns the auto answer capability on or off. Auto Answer enables the phone to connect the caller automatically after three

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rings. The auto answer setting is only available with the phone in the hands-free mode.

To set Auto Answer:

1. Press **Menu 6 2 (Options - Auto Answer)**.
2. Press **Next** to select Auto (in Hands-Free mode) or off.
3. Press **OK** to save.

### **3 Any Key**

Any Key allows you to answer an incoming call by pressing any key (except **PWR** or **END**).

To turn Any Key on or off:

1. Press **Menu 6 3 (Options - Any Key)**.
2. Press **Next** to turn Any Key Answer on or off.
3. Press **OK** to save.

### **4 External Control**

The external control setting can be used to select Radio Mute or to turn off external controls. The external control setting is only available with the phone in the hands-free mode. Radio Mute automatically mutes the radio in the vehicle when a call comes in.

To turn External Control on or off:

1. Press **Menu 6 4 (Options - External Control)**.
2. Press **Next** to select Radio Mute or Disable.
3. Press **OK**; press **CLR** to save.

### **5 Backlight**

Backlighting provides for the continuous illumination of the keypad and display screen for use in low light conditions. The backlight setting is only available with the phone in the hands-free mode.

To turn on or off the backlight:

1. Press **Menu 6 5 (Options - Backlight)**.
2. Press **Next** to toggle Backlight Control on and off.
3. Press **OK**; then press **CLR** to save.

### **6 Screen Saver**

When the screen saver selection is enabled, the current LCD display is preempted with a screen showing "Press any key to proceed..." after 10 seconds if a key is not pressed. The screen saver selection corresponds with the backlight operation. If any key is pressed, no action is taken and the previous user screen is restored.

To turn on or off the Screen Saver option:

1. Press **Menu 6 6 (Options - Screen Saver)**.
2. Press **Next** to toggle Screen Saver on or off.
3. Press **OK**; then press **CLR** to save.

### **7 Fixed Dial**

The fixed dial selection restricts the number of digits in telephone numbers dialed; thus, the types of outgoing calls can be restricted. For example, if the fixed digit value is set to the default 32, the outgoing calls are not restricted; however, if the fixed digit value is set to 7, only local calls can be dialed.

To set the Fixed Dial option:

1. Press **Menu 6 7 (Locking - Fixed Dial)**.
2. Enter the pass code if necessary.

3. Press the digit key(s) to enter a number up to 32.
4. Press **OK** to save the setting or press **CLR** to cancel.

## **System**

The system submenu allows you to set up the phone. It is recommended that the dealer or service provider assist you in the initial setup of your phone.

### **1 NAM Selection**

The NAM selection provides you with the option of selecting one of two Number Assignment Modules (NAMs).

To select a NAM:

1. Press **Menu 7 1 (System - NAM)**.
2. Press **Next** to select NAM 1 or NAM 2.
3. Press **OK**; then press **CLR** to save.

For more information on assigning a phone number to a NAM, refer to "Over-Air Activate" on page 12.

### **2 Mode Selection**

The phone can operate in one of four transmission modes:

- Analog
- Digital
- "A then D"
- "D then A"

For example, in the "A then D" mode, the phone attempts to acquire analog service then digital service if analog is not available.

To select the transmission mode:

1. Press **Menu 7 2 (System - Transmission Mode)**.
2. Press **Next** to scroll through the list of mode options: Analog, Digital, A then D, or D then A.
3. Press **OK**, then **CLR** to save the setting (or press **CLR** before OK to cancel).

### **3 Preferred System Selection**

The preferred system selection provides for the selection of one of four Preferred Systems: Standard, Home Only, System A Only, or System B Only. In the Standard mode, Home is the Preferred System.

To select the Preferred System:

1. Press **Menu 7 3 (System - Preferred System)**.
2. Press **Next** to select Standard, Home Only, System A Only, or System B Only.
3. Press **OK** to save.

### **4 Power-On Message Personalization**

To enter a personalized message that displays during power on:

1. Press **Menu 7 4 (System - Power On Message)**.
2. Enter the first character by pressing an alphanumeric key.
3. Press **ABC**, **abc**, and **0-9** to toggle between uppercase letters, lowercase letters, and numbers.
4. Press the corresponding key to enter a character or number. If the same key is required, press **1** to move to the next space. Press **1** twice to skip a space.
5. Press **Opts 1** to choose punctuation for your text.
6. To delete or replace a previous character, press the **CLR** key.
7. Press **Opts 3** then **CLR** to save or **Opts 4 Edit** to cancel changes.

For more information on entering letters or numbers, see "Changing Numbers and Names Saved in the Phone Book" on page 30.

## **5** Feature Codes

The phone automatically receives, through the network, certain default feature settings that are standard to the area cellular service provider; for example, the voice mail center phone number. If necessary, the feature settings can also be customized by using the feature codes selection.

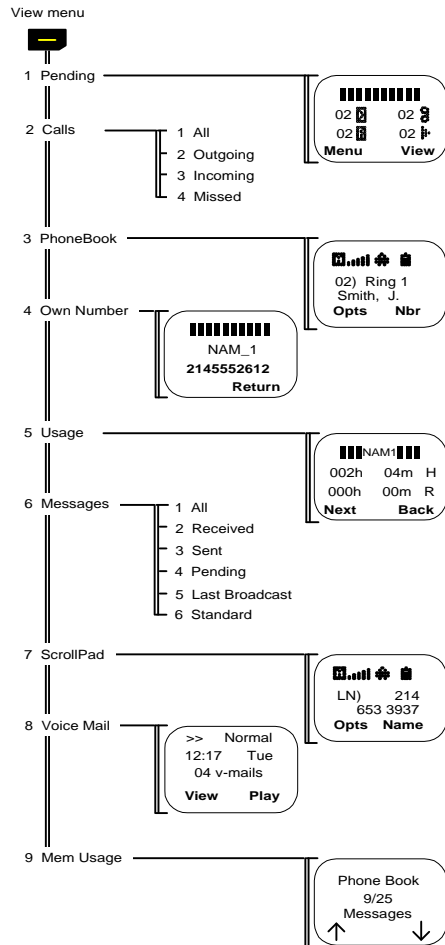
**Note:** For information on using automated feature codes for call forwarding and other calling options, contact your cellular service provider to obtain the applicable code settings.

To change the feature code settings:

1. Press **Menu 7 5 (System - Feature Codes)**.
2. Press the up and down arrow keys to display the feature code selections.
3. With a selection displayed, press **Edit** and then **New** to change a feature code.
4. Enter in the correct feature code setting.
5. Press **OK** to save the feature code setting.
6. Press and hold **CLR** to return to the standby mode.

## View Menu Categories

1. Press **View**.
2. Select a menu category.
3. Refer to the following information to access the submenu options.



### View Pending Message

The pending selection displays the total number of calls, pages, messages, and voice mail messages that have not yet been viewed.

To view the number of pending calls and messages that have not been viewed:

1. Press **View 1 (Pending)**.
2. Press **CLR**.

### View Call Logs

The calls selection menu displays your call history beginning with the most recent call. Each call history entry contains the time the call started, the call log number (1-30), the length of the call, and the phone number of the person called or of the person calling.

To view calls:

1. Press **View 2 (Calls)**.
2. Select the group of calls you want to review. Press **1** (All), **2** (Outgoing), **3** (Incoming), or **4** (Missed) to view the type of call.
3. Press the up or down arrow key to scroll through the calls.
4. Access the Options and Save menus by pressing the appropriate soft key.

### **View Phone Book Contents**

The phone book selection displays the name, phone number, location number, and distinctive ring setting if enabled.

To view the Phone Book entries:

1. Press **View 3 (Phone Book)**.
2. Press **Name** and **Nbr** to toggle between Name and Number.
3. Access the Options menu by pressing **Opts**.

For more information about the Phone Book, see "Storing to Phone Book" on page 28.

#### **Viewing Phone Book Options Menu**

1. **View Full Number:** Provides full phone number viewing.
2. **Dial Opts:** Provides dialing options (see "Dialing Options Menu" on page 24).
3. **Delete:** Deletes the current Phone Book entry.
4. **Edit:** Allows for editing of the current Phone Book entry.
5. **Move:** Allows you to move the current Phone Book entry to another location in the Phone Book.
6. **Order By Name/Loc:** Orders the Phone Book alphabetically or numerically.
7. **Set Ring:** Sets a distinctive ring for the current phone number.

### **View Own Number**

The own number selection displays your phone number and the current NAM.

To view your phone number:

1. Press **View 4 (Own Number)**.
2. Press **Return**.

### **View Total Talk Time Usage**

The usage selection displays the total talk times for peak and non-peak usage, and for Home and Roam usage.

To view call usage:

1. Press **View 5 (Usage)**.
2. Press **Next** to toggle between the NAM 1 and NAM 2 talk time counters.
3. Press **CLR**.

### **View Messages**

The messages selection displays all saved messages, beginning with the most recent message, the nature of the message (Normal, Urgent, Emergency, Interactive), time stamp, and phone number, if available.

#### **1 All Messages**

The all message selection displays the message summary.

To view all messages:

1. Press **View 6 1 (Messages - All Messages)**.
2. Press **View** to display the first page of the first message. Use the soft keys to move up and down through the message. Use the up and down arrows to move to the next message or back to the previous message.
3. Enter the Pass Code if prompted.
4. Access the Options menu by pressing **Opts**.

### **Viewing Messages Options Menu**

1. **View Full Number:** Allows you to view numbers above the last 16 numbers.
2. **Dial Opts:** Provides dialing options (see "Dialing Options Menu" on page 24).
3. **Delete:** Deletes the current message.
4. **Reply:** Sends a reply to the current message if requested.
5. **Cancel:** Cancels a sent message if not delivered to destination.
6. **Resend:** Resends a previously sent message.
7. **Save number:** Saves the phone number to the Phone Book or scrollpad.
8. **(Un)Lock:** Toggles current message lock on or off.
9. **Home:** Returns the display to the previous screen.

### **2 Received Messages**

This option displays received messages, beginning with the most recent message, the nature of the message (Normal, Urgent, Emergency, Interactive), time stamp, and phone number.

To view received messages:

1. Press **View 6 2 (Messages - Received Messages)**.
2. Press **View** to display the first page of the first message. Use the soft keys to move up and down through the message. Use the up and down arrows to move to the next or back to the previous message.
3. Enter the Pass Code if prompted.
4. Access the Options menu by pressing **Opts**.

### **3 Sent Messages**

This option displays sent messages, beginning with the most recent message, the nature of the message (Pending, Received), time stamp, and phone number. (**Note:** The ability to send text messages may not be available from the cellular service provider at this time.)

To view sent messages:

1. Press **View 6 3 (Messages - Sent Messages)**.
2. Press **View** to display the first message. Use the soft keys to move up and down through the message. Use the up and down arrows to move to the next or back to the previous message.
3. Enter the Pass Code if prompted.
4. Access the Options menu by pressing **Opts**.

### **4 Pending**

Pending displays only pending messages.

To view only unread messages:

1. Press **View 6 4 (Messages - Pending)**.
2. Press **View** to display the first message. Use the soft keys to move up and down through the message. Use the up and down arrows to move to the next or back to the previous message.
3. Enter the Pass Code if prompted.
4. Access the Options menu by pressing **Opts**.



## 5 Last Broadcast

This option displays the last broadcast message stored in the buffer. (**Note:** The broadcast message capability may not be available from the cellular service provider at this time.)

To view broadcast messages:

1. Press **View 6 5 (Messages - Broadcast Messages)**.
2. Press the right and left soft keys to scroll through the screen.
3. Press **CLR**.

## 6 Standard

This option displays standard messages for reviewing and editing if changes are needed before possibly sending a reply.

To view standard messages:

1. Press **View 6 6 (Messages - Standard Messages)**.
2. Press the right and left arrow keys to scroll through the screen and view the messages.
3. Press **Page** to scroll through the selected message.
4. Press **Edit** to change the message.
5. Press **Char** to move around the message character by character; press **Line** to move around the message line by line. Use the right soft key to switch between the character and line settings. Use the arrows to move the cursor. To add punctuation, press **Opts 1 (Punct)**. For more information on editing, see "Reviewing and Editing a Standard Message" on page 33.
6. Press **Opts 3 (Save)** then **CLR** to save the message, **Opts 4 (Exit)** to cancel the changes, or **Opts 6 (Home)** to return to the previous screen.

## 7 View Info

The View Info selection enables the User to view an information message from the Base Station if longer than two LCD lines.

1. Press **View 6 7 (Messages - View Info)**, ???as prompted, to display the first page of information. Use the up and down arrows to scroll through the text.
2. Press **CLR**.

## View Scrollpad

The scrollpad function serves as a storage area for numbers entered by the person on the other end of the conversation. The phone numbers in the scrollpad can be viewed and an identifying nametag, such as the person's name, can be entered.

To view the Scrollpad:

1. Press **View 7 (Scrollpad)**.
2. Press the right soft key to toggle between Name and Number.
3. Press the up or down arrow key to scroll the list of phone numbers.
4. Access the Options menu by pressing **Opts**.

For more information on the Scrollpad, see "Storing to Scrollpad" on page 28.

#### **Viewing Scrollpad Options Menu**

1. **View Full Number:** Provides full phone number viewing.
2. **Dial Opts:** Provides dialing options (see "Dialing Options Menu" on page 24).
3. **Delete:** Deletes the current message.
4. **Edit:** Enables editing of the current message.
5. **Auto Save Number:** Automatically saves the phone number to the Phone Book.
6. **Save:** Saves the message.

#### **Access Voice Mail**

This option enables you to view voice mail status and access voice mail.

To access voice mail messages:

1. Press **View 8 (Voicemail)**.
2. Press **View** to display whom the message was from and a call back number if the information is available.
3. Press **Play or SEND** to connect to the service provider voice mail system and to play the messages.
4. Enter the pass code if prompted.
5. Press **END** to end the call.

For more information on Voicemail, see "Retrieving Voice Mail" on page 35.

#### **View Mem (Memory) Usage**

The memory usage selection displays the number of entries in the Phone Book and the number of available entry locations; and the number of saved messages and the amount of space used and available (total number of messages that can be saved).

To view Memory Usage:

1. Press **View 9 (Memory Usage)**.
2. Press the right and left soft keys to scroll through the list of usage displays.

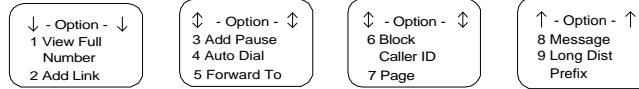
#### **Dialing Options Menu**

Dialing Options include the following:

- View Full number (please see "View Own Number" on page 21 under Phone Book submenu).
- Add Link (described in this section)
- Add Pause (described in this section)
- Auto Dial (described in this section)
- Forward to (see "Call Forward" on page 12)
- Block Caller I.D (described in this section)
- Page (see "Page (Dialing Option Submenu)" on page 32)
- Message (see "Message (Dialing Option Submenu)" on page 32)
- Long Dist Prefix (described in this section)

**Note:** Calling Codes such as Call Forwarding, Block Caller I.D., Cancel Call Waiting, etc., may vary from market to market and require that the codes the phone pro-

vides be edited before use. Contact the local wireless carrier to obtain the correct Calling Codes.



### Access Automated Phone Systems With Link or Pause Dialing

Using your phone to access and perform transactions through automated phone systems (such as banking or voice mail systems) can be simplified using the link and pause dialing features. The phone **Send #** feature combined with the link or pause dialing feature makes communicating with automated systems easier.

The phone communicates with automated systems through transmitted touch tones (DTMF signals) in response to the **FCN 3 (Send #)** key sequence under the following conditions during Conversation mode:

- When the dialed number is linked to a number in the Phone Book
- When the dialed number contains a second number separated by a manual pause.

The phone transmits the touch tones (DTMF signals) upon connection with the other party by pressing **FCN 3 (Send #)** key sequence. Leaving the Standby mode during conversation disables transmission of the linked number. The location of a number in the Phone Book is requested for transmission of the linked number.

#### Add a Link

The Add Link option links a phone number to a second number in the phone book, which the phone sends as touch tones (DTMF signals). Link numbers are ideal for sending out confidential numbers such as a pass code or social security number that is stored in the protected phone book locations. Save the number to the Phone Book before sending it as a linked number. For information on saving phone numbers to the Phone Book, see "Storing to Phone Book" on page 28.

To add a link:

1. Enter the phone number.
2. Press **Opts 2 (Add Links)**.
3. Enter the corresponding Phone Book location for the linked numbers. To replace a location number entered incorrectly, press **New** and enter the correct location.
4. Press **OK** to link location to number in dial mode.
5. Press **Save** to store the phone number and the linked number to the Phone Book.
6. Press **SEND** to dial the numbers. After the call is connected, the linked numbers can be sent by pressing **FCN 3 (Send #)**.

#### Add a Pause

The Add Pauses option enables the phone to add one or more pauses between the entered phone number and other numbers to be sent out as touch tones (DTMF signals). Adding pauses between numbers works effectively for accessing automated systems such as company voice mail systems. For example, one phone book location can store:

"Company Voice Mail Phone Number" **P** "Voice Mailbox" **P** "Pass Code"  
with **P** indicating a manual pause.

OR

A combination of linking and pause dialing can be used:

“Company Voice Mail Phone Number” **P** “Voice Mailbox” **L** “Pass Code” where the pass code is stored in a secured phone book location. Each time the automated system prompts for a response, press **FCN 3** to transmit the next sequence of numbers after the pause or link indicator. For automated pauses, once the call timer begins, the phone pauses for the designated duration, and then transmit the digits following the pause as touch tones (DTMF signals).

To add a pause:

1. Enter the phone number.
2. Press **Opts 3 (Add Pause)**.
3. Press the corresponding digit key to select a pause interval. The phone adds a “P” after the phone number for each manual pause and a comma (,) for each 2-second automatic pause.
4. To add another pause, repeat Steps 2 and 3 of this process.
5. Enter the number to send.
6. Press **Save** to store the phone number and paused number to the Phone Book.

#### **Auto Dial**

When placing a call, if there is no answer or if the phone is busy for up to 30 seconds, the phone redials one minute after ending each try. The phone attempts autodial twice.

To select Auto Dial:

1. Enter the phone number.
2. Press **Opts 4 (Auto Dial)**.
3. When the other party answers, press **Talk**.
4. Access menu and View options by pressing the associated soft keys.
5. Finish the conversation.
6. Press **END**.

#### **Block Caller ID**

Block Caller ID prevents the display of your phone number on the other party’s caller identification system.

To Block Caller ID:

1. Enter the phone number.
2. Press **Opts 6 (Caller I.D.)**. The phone adds the “\*67” prefix to the entered phone number.
3. Press **SEND**. To cancel the call before sending, hold down **CLR**.

#### **Long Dist Prefix**

This option adds a prefix to the number entered for long distance dialing.

To enable the long distance prefix option:

1. Enter the phone number.
2. Press **Opts 9 (Long Dist Prefix)**. The phone adds the “1” prefix to the phone number to be dialed.
3. Press **SEND** to dial.

To save the phone number:

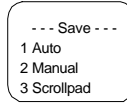
1. Press **Save**.
2. Choose where you want to save the number (i.e., Auto, Manual, or Scrollpad).
3. Access Menu and View options by pressing the associated soft keys.

For more information on saving to the Phone Book, see “Storing to Phone Book” on page 28; for more information on saving to the Scrollpad, see “Storing to Scrollpad” on page 28.

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## Save Menu

The Save menu is available in selected review modes when an incoming or saved phone number is being entered/accessed. It provides options for saving the phone number to the Phone Book or the Scrollpad.



For more information on saving to the Phone Book, see "Storing to Phone Book" on page 28.

For more information on saving to the Scrollpad, see "Storing to Scrollpad" on page 28.

## Chapter 4: Scrollpad and Phone Book

### Storing to Scrollpad

The Scrollpad provides temporary storage of five phone numbers of up to 32 digits each with identifying names of up to 10 characters each. When full, the scrollpad discards the oldest entry with each new entry.

To store a number to the Scrollpad:

1. Enter a phone number.
2. Press **Save 3 (Scrollpad)**. The phone displays the number as the first entry in the scrollpad.
3. Press the **CLR** key at any time to return to the View menu.

To save the scrollpad entry to the Phone Book:

1. Press **View 7 (Scrollpad)** to recall the phone number from the Scrollpad.
2. Press **Opts 5 (Auto Save)**. This allows you to store the phone number to the first available location in the Phone Book.
3. Press **Opts 6 (Manual Save)**. This is used to store the entry manually to the Phone Book.

For more information on this menu, refer to "Saving a Phone Number Manually" on page 28.

Applying Dialing Options to a Scrollpad entry:

1. Press **Opts 2 (Dialing Mode)**.
2. Press **SEND**.
3. Hold down **CLR** if you need to cancel the call.

Deleting an Entry from the Scrollpad:

1. Press **Opts 3 (Delete)**.
2. Press **Yes** to proceed and delete the entry.
3. Press **No** or **CLR** to cancel.

Editing Names in the Scrollpad:

1. Access the entry in the scrollpad (please see "Storing to Scrollpad" on page 28).
2. Press **Opts 4 (Edit)**.

For more information on editing entries, see "Changing Numbers and Names Saved in the Phone Book" on page 30.

### Storing to Phone Book

Phone Book storage includes three distinct areas:

#### One-Touch Area (location 1-9)

These locations are designated for One-Touch use, and numbers are saved to these locations manually (see "One-Touch" on page 16).

#### **Saving a Phone Number Manually**

You may use this function to designate the Phone Book location for the saved phone number (i.e., certain numerical groupings may represent certain groups of people).

To save a phone number manually:

1. Enter the phone number.
2. Press **Save 2 (Manual Save)**.
3. Designate the two-digit location in the Phone Book for this phone number. The screen prompts for confirmation.
  - If the location is empty, then the prompt indicates the condition.
  - If the location is occupied, then the entry flashes on the screen.
4. Overwrite the current entry or advance to the next available location.
5. Press **OK** to save the phone number to the displayed location.

6. Press **Now** to enter a name or press **Later** to enter a name at a later time.

**Note:** You may press **CLR** or **Quit** to exit the Phone Book without storing an entry.

For more information on alphanumeric editing, (i.e., names), see "Power-On Message Personalization" on page 18.

### **Auto-Save Area (Locations 10-89)**

Store phone numbers automatically or manually in this area from dial mode.

#### **Saving a Phone Number Using Auto - Save**

1. Enter the phone number.
2. Press **Save 1 (Auto Save)**.  
The screen displays the first available location in the Phone Book, beginning with the location "10." (See "Storing to Phone Book" on page 28 for memory location assignments.)
3. Press **OK** to accept the displayed location.
4. Press **Now** to enter the name or press **Later** to enter the name at a later time.

For more information on alphanumeric editing, (i.e., names), please see "Power-On Message Personalization" on page 18.

### **Protected Area (Locations 90-99)**

Store secure numbers such as access codes or credit card numbers in this area. Access to this area requires entering the permanent pass code. Transmit secure numbers from this area as touch tones (DTMF signals) without keytone feedback or digit display using the "FCN"/"Quiet Key"/"Receive #" key sequence and specifying the location. When a name and number stored in this area is recalled, the name displays but the number digits are replaced by asterisks. To view the digits of the number, enter the number mode by using the right soft key and pressing **View**; then enter the pass code.

#### **Setting Review Mode (By Name or Location)**

The Phone Book displays entries by name ( $\alpha$ ) and/or numerically by location (#).

To set Phone Book review by name or location:

- Press **Opts 6 (Order by Name/Loc)** after entering the phone book.  
The other user prompt appears in the upper right corner of the screen.

To switch name and location view quickly:

- Press and hold the left soft key. The phone switches review modes, and the other prompt appears in the upper right corner of the screen.

To review Sequentially by Location:

1. Begin with the digit user prompt (#) displayed in the upper right corner of the screen.
2. Press the right arrow key to scroll the Phone Book entries in numerical order by location (press the left arrow key to scroll backward).
3. Hold down either the left or right arrow key to repeatedly scan entries. Only the contents of occupied locations are displayed.

To review Directly by Location:

You may access the Phone Book location directly by pressing the corresponding key.

If it is a single digit location (with the digit user prompt (#) displayed in the upper right corner):

- Press the single digit and wait for the two second time-out.  
OR
- Hold the digit for one-half second.

To review by Name:

1. Begin with the alphabetical user prompt ( $\alpha$ ) displayed in the upper right corner of the screen.
2. Use the right or left arrow keys to scroll through the Phone Book.

To access by alphabetical group:

1. While in the Phone Book, begin with the alphabetical user prompt ( $\alpha$ ) displayed in the upper right corner of the screen.
2. Press a digit (e.g., "2 ABC") key to display the first name (e.g., "Adam") in the list of names (e.g., Adam, Arthur, Brad, Charles) with first letter matching the first letter (e.g., "A") in the key group.
3. If a match is not found, then the next letter in the key group (e.g., "B") is used until a match is found.
  - If a match is not found for any letter in the key group, "no entries stored" is displayed.
  - If a match is found, then press the up and down arrow keys to scroll through the remaining names in the Phone Book.
4. Press and hold the digit key to display the number of names that begin with the letters on the key. Use the up and down arrow keys to scroll through the list.
5. Press **SEND** to dial the number.
6. Press **Back** to return to the previous Phone Book review mode or press **Home** to find the total number of Phone Book entries.
7. To exit the Phone Book, press **CLR**.

### Changing Numbers and Names Saved in the Phone Book

This option allows you to change names and numbers in the phone book.

To edit a phone number saved in the Phone Book:

1. Enter the Phone Book. Scroll through the Phone Book to find the name of the person whose phone number you want to edit.
2. Use **Nbr** to toggle to number view.
3. Press **Opts 4 (Edit)**.
4. Use **CLR** to delete the number.
5. Enter the correct number.
6. Press **Opts 3 (Save)** then **CLR**.
7. To cancel the changes while viewing the Edit screen, press the **Opts 4 (Edit)**.

To edit name saved in the Phone Book:

1. Find the entry in the Phone Book.
2. Press **Name** if the phone numbers are displayed.
3. Press **Opt 4 (Edit)**.
4. Enter the characters for the name (for editing alpha entries, please see "Power-On Message Personalization" on page 18).
5. Press **Opts 3 (Save)** then **CLR**.
6. To cancel the changes while viewing the Edit screen, press **Opts 4 (Edit)**.

### Deleting Phone Book Entries

This option allows you to delete entries in the Phone Book.

To delete Phone Book entries:

1. Hold down the View key to access the Phone Book.
2. When the Phone Book screen displays, find the entry to be deleted.
3. Press **Opts 3 (Delete)**. The phone prompts for confirmation.
4. Press **Yes** to delete the entry or **No** to cancel the deletion.



---

## Text Messages, Voice Mail Messages, and Pages

With your DigitalTalk 3200, you can send and receive text messages and pages as well as receive voice mail when the phone is in digital mode. In analog mode, the phone receives text messages only, and the text message does not include a date, time stamp, phone number, or priority. (**Note:** The ability to send messages or receive broadcast messages may not be available from the cellular service provider at this time.)

Two distinct types of text messages are available:

- Regular text messages that you can send and receive.
- Broadcast messages transmitted to groups of subscribers. Examples of broadcast service messages are emergency warnings, traffic reports, weather conditions, company broadcasts to field personnel, and advertisements. Broadcast messaging supports both priority and filter options.

This subsection refers to and treats broadcast messages, regular messages, and pages as general messages, since pages may contain text messages, and text messages may contain callback numbers.

Based on available service, the phone supports the following options:

- Text messages up to 255 characters (including overhead) for receiving and for sending.
- Four levels of priority: Normal, Interactive, Urgent, and Emergency
- Four levels of privacy: Not Restricted, Restricted, Confidential, and Secret. (The last three options require a pass code to access.)
- Callback or destination numbers up to 32 digits
- Two levels of message filtering for broadcast messages: Normal or Emergency
- Reply option for incoming messages
- Acknowledgments for outgoing messages
- Alert On Delivery and prompting during Standby mode
- Storage option for broadcast messages (When the memory is full, regular messages overwrite the oldest broadcast message.)
- Storage, review, and delete options for 30 transmit and received messages, including acknowledgments, up to a total of 4,096 characters
- Option to store callback number in Phone Book
- Cancelling and resending transmitted messages
- Message locking
- Originate call to the callback number or a number embedded in message text
- Replies to sent messages are attached to the front of the original text with a date
- Ten standard user replies, up to a total of 1000 characters
- Standard message editing capability

Voice mail service provides notification of the number of pending voice mails, time stamp, and callback number and text message.

To use the callback option:

1. View the notification.
2. Press **SEND** to automatically dial the callback number for retrieval of voice mail messages.

Voice mail notification and message transmission to the phone should occur at power-on or within 10 seconds of arrival at the service provider if the phone is on.

## Page and Message Delivery

### Message Viewing Options

When new pages or messages arrive, the phone sounds an alert tone and if the User Alert is on, the phone displays an envelope icon on the status line. To turn off automatic prompting, see "User Alert" on page 13.

To view a message upon receipt:

1. When the new message prompt is displayed, press **Now** to view messages now (the screen displays the message header for the first pending message - View key flashing).
2. Press **View** as many times as necessary to scroll down through the message. (Press the left soft key to scroll up to the beginning of the message or hold down the soft keys to repeat scrolling of the message.)
3. Press the **CLR** key to return to the message header.
4. Press the down arrow key to view older messages.
5. Press the up arrow key to review the newer messages. If you have reached the first or last message, pressing the arrow key causes an alert tone to sound.
6. Press **CLR** to return from message review at any time.

To review a message later:

When the new message prompt is displayed, press **Later**. The phone stores the message and returns automatically to the standby mode.

### Message (Dialing Option Submenu)

This option sends a standard or composed text message to another phone number.

To compose and send an original message:

1. Enter the phone number.
2. Press **Opts 8 (Message)** to compose a message.
3. To load a standard message, press **Opts 8 5 (Message - Standard Message)**.
4. Press the up or down arrow keys to scroll to the desired message.
5. Press **OK** to select and load the message into the edit buffer. For more information on editing a message, see "Reviewing and Editing a Standard Message" on page 33.
6. Press **SEND** to display the "submit option" screen.
7. Use **Next** to move from priority (Normal, Interactive, Urgent, Emergency), to reply option (Reply, No Reply), to restriction (Open, Restricted, Confidential, Secret) parameters. Use the up and down arrow keys to activate the desired options for these parameters.
8. Press **OK**.

**Note:** The message is saved in the Message Center for an indefinite period of time until the message is delivered or cancelled by the sender. The language indicator will be set to the current setting.

### Page (Dialing Option Submenu)

This option sends a page to the entered phone number.

- No text option is provided.

To send a page:

1. Enter the phone number.
2. Press **Opts 7 (Page)** to select page option.
3. Press **Next** to move from priority (Normal, Interactive, Urgent, Emergency), to reply option (Reply, No Reply), to restriction (Open, Restricted, Confidential, Secret) parameters. Use the up and down arrow keys to activate the desired options for these parameters.
4. Press **OK** to save.

### Reviewing and Editing a Standard Message

A standard message area is provided so that you can save commonly used messages and not have to re-enter the whole message. You may, however, edit standard messages for your needs.

To edit a standard message:


1. Press **View 6 (Messages)** to view the first standard message. Use the arrow keys to scroll to the desired standard message.
2. Press **Page** to page through the selected message text.
3. Press **Edit** to change the message.
4. Press **Char/Line** to switch between moving the cursor character-by-character or from line-to-line by pressing the arrow keys to move the cursor.
5. Pressing the digit key or selecting a punctuation mark from the options menu inserts a character before the cursor (blinking style).
6. Press **CLR** to erase the character before the cursor. If you are at the start of a sentence, the character is uppercase; if not, then it is lowercase.
7. Edit the message text as described in "Changing Numbers and Names Saved in the Phone Book" on page 30 (the options menu for cursor based editing includes two additional options, **Home** and **Load**).
8. Press the **Opts 3 (Save)** to save the edited message.
9. Press **Opts 6 (Home)** to exit the edit session.
10. Exit without saving changes by pressing **Opts 4 (Exit)** to return to the Standard Message Selection menu.

### Pending Notification

When new messages arrive, the associated icon displays in the top status line on the screen as long as the message is unread. A message is pending if you have not yet reviewed the message.

The screen display indicates message types as follows:

 Regular/Broadcast Messages/Pages

 Acknowledgments of sent messages

 Voice mail notification

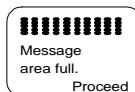
When more than one type of message is pending, the associated icons display alternately every two seconds. The message icon continues to display if any messages of that type have not been reviewed.

### Receiving a New Message While Reviewing Messages

If new messages or replies arrive while reviewing a message, the alert tone sounds (if set); however, you are not interrupted except for an Emergency broadcast. When you exit from reviewing the messages, your phone displays the "View new msg" menu. Press **Now** to view the new messages now or **Later** to continue without viewing new messages at this time.

### Message Area Full

If the message space is full, the following screen displays:



The base station sends the message again later (except broadcast messages) or at power-on. To recover storage and to minimize message rejection, delete messages in a timely manner.

## Broadcast Message Delivery

### Broadcast Message Storage Option

The phone provides the option of turning Broadcast Message Storage on or off. If on, broadcast messages are stored with your other messages. If off, only the last broadcast message is saved (the previous broadcast message is replaced).

To turn Broadcast Message Storage on and off:

1. Press **Menu 3 6 (Features - Broadcast Message Storage)**.
2. Press **Next** to toggle Broadcast Message Storage on or off.
3. Press **OK** to save or **CLR** to cancel.

### Broadcast Message Arrival/Storage

The phone sounds an alert upon the arrival of a broadcast message. The "MESSAGE ARRIVED" screen displays briefly; the phone then displays the broadcast message header.

To review the broadcast message:

1. Use **View** to scroll forward through the message. Press the left soft key to scroll back or hold down either key to repeat scrolling of the message.
2. Press the **CLR** key to restore the previous screen.

If the broadcast message storage option is off, then "Not Saved" appears in the status field of the message text and only the last (saved) broadcast message is accessible.

If the message broadcast storage option is on, the message is saved and reviewed in the same manner as regular messages, and the callback number field displays "\*\*\*\*B'cast." The last broadcast is saved in a special location even if the message is stored to the general message area.

### Broadcast Message Filter

The phone provides the option of filtering broadcast messages. When the filter is set for "Emergency," the phone stores and displays only emergency broadcast messages. When the filter is set to "Normal," all broadcast messages are stored.

To set the Broadcast Message Filter:

1. Press **Menu 3 5 (Features - Broadcast Message Filter)** to display the "Broadcast Message Filter" screen.
2. Press **Next** to toggle between "Normal" and "Emergency" priority.
3. Press **OK** to save or **CLR** to cancel.

### Automatic Deletion of Broadcast Message


If a broadcast message is stored in the message space and a higher priority broadcast message or any priority regular message arrives, the broadcast message is deleted and replaced with the new message. If this occurs while the broadcast message is being reviewed, the phone displays "Message Arrived" and then "Message Deleted" for the broadcast message that is being reviewed.

To view a message while a previous message is being reviewed:

- Press **Proceed**. The new message is displayed with a flashing View command key to indicate the message text has not yet been viewed.

---

## Retrieving Voice Mail

When a new voice mail notification arrives, the phone sounds an alert tone, if designated by the message, and the voice mail pending indicator (  ) displays. The voice mail status information is saved including a time stamp, the callback number, the priority indicator, and an optional alphanumeric message. A prompt is then displayed to view the voice mail status now or later. This prompt displays when the phone is in standby mode or returns to standby mode.

### Review Voice Mail Immediately Upon Receiving Notification:

With the voice mail alert screen displayed, press **SEND** (or press **Now** and then either **Play** or **SEND**) to listen to the voice mail messages immediately. The phone dials your voice mail center. When you are finished listening to the voice mail messages, press **END**.

**OR**

With the voice mail alert screen displayed, press **Now** and then **View** to display information, if available, on the incoming call including caller identification, callback phone number, and message priority and privacy levels. Press **SEND** to dial the callback number; or press **CLR** and then **Play** or **SEND** to call your voice mail center.

### Review Voice Mail Messages Later:

1. Upon receiving notification of voice mail, press **Later** to review messages at a later time.
2. When you are ready to review messages, press **View 8 (Voice Mail Status)**.
3. To listen to the voice mail messages, press **Play**. The phone dials your voice mail center.
4. When you are finished listening to the voice mail messages, press **END**.

## Chapter 5: Safety Information

### 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.



---

## Chapter 6: Troubleshooting

### Phone Has No Power or Does Not Work

**If the power does not come on or stay on:**

1. Make sure the battery is installed on the phone properly.
2. Be sure the contacts are clean on the battery and the charger.
3. The battery charge may be too low for operation. Listen for the low battery alarm or check the battery level by looking at the Battery Level Indicator (see "I. Battery Indicator:" on page 6) on your screen.

**If the power comes on, but the phone does not work:**

1. Check the NO Service message (see "F. Signal Strength:" on page 6); you may be out of the cellular service area.
2. Make sure that the antenna is fully extended.

For more information on Service Center assistance, see "NEC Service Support" on page 42.

### Maintaining Service During A Conversation

Degradation of service quality occurs in a mobile environment due to fading of the signal. This fading may result in the abrupt interruption of service, referred to as a "dropped call."

**The following factors may cause fading:**

- Phone use in weak signal areas
- Reflection of the signal off of obstacles such as buildings
- Interference from multiple reflections of the signal

**Loss of Service**

If the phone loses service in either the standby or conversation mode, the signal strength indicator (see "F. Signal Strength:" on page 6) continues to display on the screen, but the system and transmission mode indicators do not display.

- The phone then initiates a search cycle. Following a successful search, the screen displays the new system and transmission mode.
- Following an unsuccessful search, "NoSrv" replaces the signal strength indicator to indicate no service.

For information on the service tone (alert), see "Quiet Key On/OFF" on page 10.

**If "Drop Call" displays on the screen during a conversation:**

1. Press **CLR** to return to standby mode.  
OR
2. Press **SEND** to retry the call if service is established.

## Chapter 7: Limited Warranty & Technical Information

### 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 MAX™ 3200 CELLULAR TELEPHONE]**

#### 2. What Does This Warranty Cover?

NECAM warrants 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 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 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 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 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

## Technical Information

Dimensions	???
Weight	???
Transmitting Power	Analog: ? E.R.P. Maximum RF Power Digital: ? E.R.P. Maximum RF Power
Operating Voltage	?
Frequency Band	824.040 to 848.970 MHz (TX) 869.040 to 893.970 MHz (RX)
Standard Battery Capacity	?
Number of Channels	
Memory Locations	99
Memory Capacity	Numeric: 32 digits per location Alpha: 10 letters per location

## 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:  
1-800-421-2141

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

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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 4,817,089 4,912,705 5,022,024 5,121,391

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