Introduction

Welcome

Thank you for choosing your Motorola phone from a global leader in communications technology. All Motorola digital cellular phones are designed and manufactured to meet Motorola's rigorous specifications and world-class quality standards. During development, our laboratory testing team took your cellular phone through rigorous durability tests including temperature, humidity, shock, dust, vibration, and drop tests—and the phone still worked!

We are confident that the phone you purchased will meet your own exacting standards. Enjoy your Motorola phone.

Understanding this Manual

Many of your phone options are accessed by a simple menu system. A full description of the menus and how to move around them is covered in the next section ***Menu Navigation***. When the manual describes the use of each menu item, it will be assumed that you are familiar with the menu system.

Key Presses

Key presses are represented in this manual using symbols so that you may locate and use the required sequence quickly. A sequence of key presses may be shown as follows:

FCN 0 7 CLEAR

This means you should press FCN followed by 0, 7, and then CLEAR, in sequence, not simultaneously.

Prompts and Messages

Your phone responds to key presses by displaying either easy to understand prompts that guide you to the next action, or simple messages confirming that your action is complete. Prompts and messages are represented in this manual in LCD style, for example:

`Enter 1st Letter` or `Location __`

Other Symbols

You will find the following symbols used throughout this manual:

A Note contains additional information which is relevant to the feature/item.

A Caution contains important additional information which is relevant to the efficient and/or safe usage of your phone.

This symbol indicates a short key sequence for the feature.

Menu Navigation

A large number of your phone's options are accessed by using menus which use a common approach for selection, change and cancellation.

Please read this section carefully before attempting to access a menu option. When you understand the common approach to menu navigation and how the menus are shown on the page, you will be able to access and change options with ease.

Menus and Sub-menus

A menu is a simple list of options. Some of these options provide access to a further list of options called a sub-menu. When navigating through the menus you may find it is helpful to think in terms of menu levels - the 'parent' menu being on one level and its sub-menus being on a lower level.

Entering the Menus

Press (FCN) then press (1) or the Smart Button (⊛) to enter the menu system

Navigating the Menus

You can navigate through the menu system using the volume keys located on the left side of the phone and the Smart Button (⊛) located on the right side of the phone. Use the upper and lower volume keys to scroll to sub-menus. Use the Smart Button to choose menus and functions.

Follow these symbols as a guide for using the keys on the side of your phone:

Press ⊛ to scroll up.

Press ⊛ to scroll down.

Press ⊛ to select.

You can also use your phone's (◄✱) and (#►) keys to scroll through the menu system.

Leaving the Menus

Press (END) to exit the menu.

Menu Options with Security Codes

Some options are protected from misuse by requiring you to enter one of the security codes. To use these options, you must enter the requested code before proceeding.

Total Customer Satisfaction

At Motorola, Total Customer Satisfaction is a top priority. If you have a question, a suggestion or a concern about your Motorola Cellular Phone, Motorola wants to hear from you.

Please contact the Motorola Cellular Response Center by fax on: +44 (0) 131 458 6732, or use one of the local phone numbers in the following countries:

Austria	0800 297246
Belgium	0800 72 370
Czech Republic	00420 2 21 85 21 01
Denmark	4348 8005
Egypt	02 3411800
Eire	01 402 6887
Finland	0800 117 036
France	0 803 303 302
Germany	0180 35050
Greece	00800 441 28150
Italy	02 696 333 16
Jordan	06 863750
Kuwait	484 2000 Ext 1177
Lebanon	01 744156
Luxembourg	0800 21 99
Netherlands	0800 022 27 43
Norway	22 55 10 04
Oman	790925
Portugal	01 318 0051
Qatar	418999
Saudi Arabia	01 2303294
South Africa	0800 11 48 49
Spain	902 100 077
Sweden	08 445 1210
Switzerland	0800 553 109
Turkey	0212 425 9090
UK	0500 55 55 55
United Arab Emirates	04 32 11 66
Hong Kong	852 25063888
People's Republic of China	86 10 68466060
Singapore	65 4855 333
Taiwan	886 2 87731746
United States of America	1 800 331 6456
Canada	1 800 461 4575

For e-mail questions contact:mcrc@ei.css.mot.com

For Internet questions contact:http://www.mot.com

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The Manufacturer reserves the right to make changes in technical and product specifications without prior notice.

Wireless Phone Safety Tips

"Safety is your most important call!"

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

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

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

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1. Wherever wireless phone service is available.



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

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

Hand-Held Portable PCS Telephone

IMPORTANT

Read this information before using your PCS Telephone

Exposure To Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standard bodies:

- ANSI C95.1 (1992)[1]
- NCRP Report 86 (1986)[1]
- ICNIRP (1996)[1]

These standards are based on comprehensive and periodic evaluations of relevant scientific literature. For example, over 120 scientists, engineers and physicians from universities, government health agencies and industry reviewed the available body of research to develop the updated ANSI Standard (C95.1).

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

Antenna Care

Use only the supplied or approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the phone and may violate FCC regulations.

Phone Operation

Normal Position: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on Efficient Operation: For your phone to operate most efficiently:

- Extend your antenna fully (if applicable).
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

1. *American National Standard Institute: National Council on radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection*

Batteries

All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touches exposed terminals. The material may complete an electrical circuit and become quite hot. To protect against such unwanted current drain, exercise care in handling any charged battery, particularly when placing it inside your pocket, purse or other container with metal objects. When the battery is detached from the phone, your batteries are packed with a protective battery cover; please use this cover for storing your batteries when not in use.

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- give full attention to driving - driving safely is your first responsibility
- use hands-free operation, if available
- pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should **ALWAYS** keep the phone more than six inches from their pacemaker when the phone is turned on.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimise the potential for interference.

If you have any reason to suspect that interference is taking place, turn your phone **OFF** immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone **OFF** in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

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

Posted Facilities

Turn your phone **OFF** in any facility where posted notices so require.

Aircraft

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

Blasting Areas

To avoid interfering with blasting operations, turn your phone **OFF** when in a "blasting area" or in areas posted: "turn off two-way radio". Obey all signs and instructions.

Potentially Explosive Atmospheres



Turn your phone **OFF** and do not remove the battery when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks, from your battery, in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present, i.e. if a gas/propane leak occurs in a car or home; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

For Vehicles Equipped with an Air Bag

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



Phone Overview

See the inside front cover of this manual for a diagram of the components described below.

Fixed Antenna—Provides superior connectability.

Earpiece—Ultra-compact phone speaker.

Power Connector Port—Provides the connections for an external power supply and vehicular accessories.

Headset Jack—Provides the connection for an optional headset.

Microphone—Positioned for convenient conversation.

Function Keys

(O)—Turns the phone On and Off.

(FCN)—Acts as a "shift" key to access the secondary functions of other keys.

(RCL)—Recalls phone numbers from memory.

(STORE)—Stores phone numbers into memory.

(CLEAR)—Clears characters from the screen.

(END)—Ends phone calls.

(SND)—Places or answers calls.

(◄*) and (#►)—Can be used to scroll through memory entries and menu features.

(✉) **Message Center Button**—Allows access to digital messages and voice mail messages.

⊙ **Smart Button**—Use the Smart Button to recall information from memory, place and end calls, select menu features, and toggle features on and off. The symbol ⌖ in your display represents the Smart Button.

⊙⊙ **Volume Keys**—The upper and lower volume keys can adjust keypad, earpiece, and ringer volume. After pressing the Smart Button, the volume keys also scroll through memory entries and menu features.

Using the Smart Button

Use the Smart Button to place and end calls, enter menus, toggle features on and off, and select items in the display. The Smart Button is on the right side—easy to feel, easy to find, and easy to use.

The symbol ⌖ in your display represents the Smart Button.

Selecting Items in the Display

The most basic use of the Smart Button is for making selections. Whenever you are given a choice such as a ringer setting, press the Smart Button to select the setting you want.

Toggling Features On and Off

Some of your phone's features toggle on and off. Use the upper or lower volume key to scroll to the desired feature, then press the Smart Button to select it.

Entering the Menu System

Press (FCN), then press ⊙ to access the menu. You will see Recent Calls.

☞ *You can also enter the menu system by pressing* (FCN) (1).

Placing and Ending a Call

You can use the Smart Button to place and end a call, as described in "Using Your Phone" on page 19.

Controlling Volume

Use the upper and lower volume keys to adjust earpiece, keypad, and ringer volume. When you press these keys, the phone's speaker demonstrates the current volume level.

To adjust earpiece volume during a phone call:

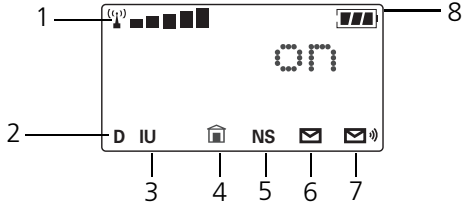
Press ⊕⊖ to raise or lower the volume.

To adjust the ringer volume and keypad while not in a phone call

Press ⊕⊖ to raise or lower the volume.

The Display

The display on your phone can show alphanumeric characters as well as useful information symbols.The various elements of the display are as follows:



1. **Signal Strength**. The more segments displayed in the bar graph, the better the signal strength.
2. **D** — **Digital Indicator.** If you are in a digital coverage area, the digital indicator appears. Your phone operates more efficiently in Digital mode.
3. **IU** — **In Use Indicator.** Displayed when a call is in progress.
4. **In-Building Indicator.** The In-Building Indicator lights when the phone accesses an In-Building Cellular System or other non-public system.
5. **NS** — **No Service Indicator**. If you travel beyond the range of a cellular system, the No Service Indicator appears to let you know that calls cannot be placed or received from your location.
6. **Short Message Service**. Displayed when the phone has received a message. The symbol will flash when your message storage area is full.
7. **Voicemail Waiting Indicator**. Displayed when you have a voice message waiting. The availability of this feature depends on your service provider.
8. **Battery Charge Indicator**. The more segments displayed, the greater the battery charge.

Your Battery

Installing the Batteries

New batteries are supplied uncharged and fitted within a protective battery carrier. To remove the batteries, press the release catch on the battery carrier and open the cover.

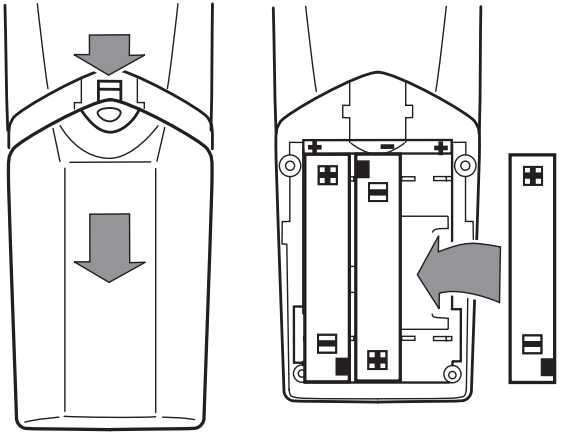
To install the batteries in your phone:

1 Press the release catch of the phone battery cover and slide the battery cover towards the bottom of the phone.

2 Align the positive and negative (+ and -) connections on the battery with the positive and negative (+ and -) connections within the phone.

3 Press the battery towards the connections and push it downwards until it clicks into place.

4 Replace the phone battery cover.



Important Battery Information

! Always treat your batteries with care. See 'Batteries', at the beginning of this manual.

! Never leave your battery in extremely high temperatures (over 60°C), for example behind glass in very hot, direct sunlight.

! Only Motorola Original Accessory batteries can be charged in the phone. This is to protect you and your phone from the risks of incorrect charging.

Charging a New Battery

New batteries are supplied in a totally uncharged state.

To ensure maximum battery performance, a new battery (or battery that has not been used for several months) should be charged for at least 14 hours before use.

☞ *A new battery will require several full charge/discharge cycles in order to achieve its optimum performance.*

☞ *A new battery, or a battery that has not been used for several months, may cause a premature fully charged indication. Ignore this indication and let the battery charge for several more hours, remove and re-insert the battery into the charger, and charge for an additional 14 hours.*

! Your batteries will not charge if they are not matched properly to the phone connection markings (+ and -). Please ensure that you have installed the batteries properly before initiating a charge.

To ensure that you enjoy maximum battery life and use your battery to its fullest capacity:

- The battery should be at or near room temperature when charging.

Battery Performance and Maintenance

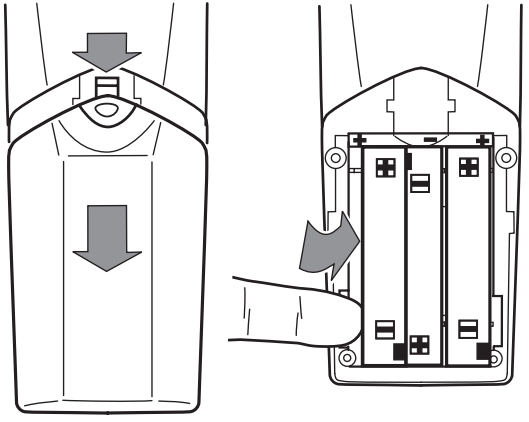
- Best battery performance will be achieved when you regularly charge and discharge batteries as instructed in this manual.
- Battery performance is greatly affected by network coverage.
- If left unused, a fully charged battery will discharge itself in approximately one month.
- When not in use, store your battery uncharged in a cool, dark and dry place.

Removing Your Batteries

Switch off your phone before removing batteries. Failure to do so may damage your phone memory.

1 Press the release catch of the phone battery cover and slide the battery cover towards the bottom of the phone.

2 Remove the batteries.



Charging Your Battery Using the Travel Charger

The travel charger can power the phone and charge a fitted battery.

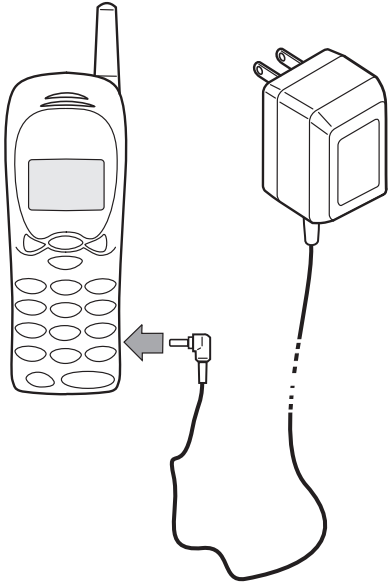
Ensure that the local mains voltage at your location matches that of your travel charger.

Install the batteries into your phone (see 'Installing the Batteries').

To charge your battery:

1 Attach the correct adapter plug to the travel charger.

2 Connect the travel charger to the phone.



3 Insert the travel charger plug into a suitable power socket.

A beep-tone is heard and the battery icon flashes when charging begins.

The beep-tone on the phone will not occur if the batteries are installed improperly. The beep-tone may take two minutes to occur with new or fully drained batteries.

The state of charging is monitored and displayed by your phone. See 'Battery Meter Indicators' later in this section for details.

Low Battery Warning

When the battery level is low and only a few minutes of talk time remain, a warning signal (two double beeps) will sound, and Low Battery will be displayed.

For a detailed battery level reading: Press FCN 4.

The more segments filled on the battery gauge (▁▃▅▇), the greater the charge.

When the battery is completely discharged, your phone will turn off.

Battery Indicators

Your phone monitors and displays information about your battery. The following message will appear on the display, as the condition occurs:



Low Battery	The battery charge is low. The battery should be recharged.

Battery Meter Indicators

The battery meter displays different messages depending on the batteries attached, and whether or not there is an external power source. The battery meter is found in the Call Related Features part of the Options Menu.

Charging Battery	The battery is being charged.
Charging Complete	Charging is complete.

☞*When the battery* is *completely discharged, you must charge the battery for one minute before you can make or accept a phone call.*

When the battery is charging the display will show a blinking battery icon with the appropriate number of charge bars.

Placing and Receiving Calls

To turn the phone on, press and hold ⏻ until the display appears and you hear an audible alert.

Press and hold ⏻ again to turn the phone off. `Powering off` will be displayed, and you will hear an audible alert.

What You Will See

When you turn on your phone, it performs a self-test to let you know it is operational. When the test is completed, the display shows:

- one of several possible greetings, such as:
  - the name of your Service Provider

  or
  - an indication of local or non-local coverage area
- your phone number
- the Digital or Analog icon

Placing a Call

To place a call:

1. Turn the phone on.
2. Enter the number you want to call.

   If you make a mistake, press CLEAR to erase one digit at a time. Press and hold CLEAR to clear the entire entry.

   You can also recall a previously dialed or stored number. (See "Using Phone Memory" on page 21 for details on storing or recalling.)
3. Press and hold ⊙ until you hear a second tone.

   or

   Press SND to place the call.

   You will hear a single-tone alert (if the keypad tones are turned on) and see `Dialing XXXXXXX`.
4. You can dial phone numbers with up to 32 digits, but only the last 20 digits appear in the display.

   Press RCL to see the entire phone number.

Ending a Call

To end a call: Press END

or

1. Press and hold ⊙ until you hear a second tone.

   You will see `Press * To End Call`.
2. Press ⊙ again to end the call.

Receiving a Call

Your phone must be powered on to receive calls.

Press SND

Unanswered Call Indicator

When you cannot take a call, your phone keeps a count of your unanswered calls and alerts you with the message `Missed XX Calls`, where *XX* is the number of missed calls.

Press ⊙ to view missed calls.

Redialing a Number

A fast busy signal indicates that the cellular system is busy. With Automatic Redial, your phone calls continuously for the next four minutes.

When it makes a connection, the phone rings. You can distinguish this ring because it is half as long as the ring for a new incoming call. When the person you are calling answers, you can begin talking.

If you hear a fast busy signal:

1 You will see `Redial Call?`

Press ⊙ or press (SND) to redial, or press (END) to exit.

2 If the call does not go through after four minutes, press ⊙, or press (SND) to continue the call attempt.

You will see `Redial`.

If you hear an ordinary busy signal:

1 Press (END) to hang up.

2 Press ⊙ or press (SND) to redial the busy number.

You will see `Dialing 5551234`.

Muting the Microphone

For privacy during a call, mute the microphone. You can hear the person on the other end, but he or she cannot hear you.

1 Press (FCN) (6) to mute the microphone. You will see `Mute`.

2 Press (FCN) (6) again to resume normal conversation.

Switching Between Digital and Analog Modes

During a call, you can switch from digital to analog modes, or from analog to digital:

To switch modes, press (FCN) (2).

Your phone selects the TDMA digital system, depending upon availability, or the analog system.

Using Phone Memory

Use your phone's internal Phone Book to store up to 99 names and numbers for easy access.

In this section you will learn how to:

- store names and numbers into the Phone Book
- recall phone numbers from memory
- clear names and numbers
- dial a number with Speed Dial and Turbo Dial™
- make notes on the scratchpad

Using Your Phone's Built-in Phone Book

Each phone number in your phone book is stored in a *memory location* numbered 01-99.

Arrange numbers for easy recall by storing related numbers in groups. If you store the numbers you call most in locations 01-09, then you can use Turbo Dial™ to call those numbers with a single key. (See "Using the Turbo Dial™ Function" on page 24 for details.)

You can also store names to identify phone numbers. Later, you can recall a number by the name that corresponds to it.

Storing Names and Numbers

How to Store Phone Numbers

1 Enter the phone number you want to store.

☞ *You can store up to 32 digits per phone number entry.*

2 Press STORE to begin storing.

The phone prompts you to enter a memory location. You will see Location ___.

3 Enter the two-digit memory location where you want the sequence stored.

or

Press ◂✱ to store the sequence in the first available location.

or

Enter the first digit of the memory location, then press ◂✱ to store the sequence in the first available location beginning with that digit.

4 After keying in a location or pressing ◂✱ key, the screen will read Alpha Or *

☞ *The * symbol in your display represents the Smart Button.*

Enter a name to identify the phone number. (See the following section for details on entering names.)

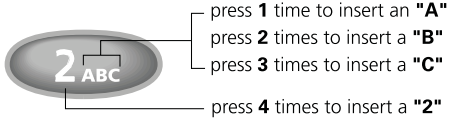
5 If you entered a name, press ⊙ or STORE when you are finished.

Your phone confirms your entry by displaying the information you stored.

Pressing ⊙ without entering a name will store the number without a name being associated with it.

How to Enter Letters and Numbers

When the display shows Alpha Or *, you can press the numeric keys one or more times to produce any letter or number in the alphabet. Use the letters printed on each key as a guide. For example, press (2) to enter "A," "B," "C," or "2" as shown:



How to Enter a Name

Press the upper or lower volume key first, to toggle between upper and lower case letters.

1 Enter a letter by pressing a key as many times as necessary. Enter punctuation by pressing (1) as many times as indicated by the chart below. Pressing (1) a single time produces a single space.

Number of times to push (1)	2	3	4	5	6	7	8	9	10
Character displayed	1	/	'	,	?	$	.	&	!

The cursor advances automatically to the next space after you enter a letter or after three seconds of inactivity. If you are repeating a character, then press (#) to advance the cursor to the next space.

2 Press (*) or (CLEAR) to erase a letter if you make an error.

3 Press ⊙ or (STORE) when you finish entering the name.

Your phone confirms your entry by displaying the information you stored.

Recalling an Entry by Name

After storing names and numbers, you can recall them alphabetically and immediately place calls. Use the Smart Button for instant access to the name directory.

1 Press ⊙ once to enter your name directory.

2 Press ⊙ to scroll to the name you are looking for.

or

Enter the first letter of the name you want to recall. The display shows the first name in the phone book that begins with that letter. If no entry beginning with that letter is found, No A's is displayed.

When the name is displayed, the corresponding number is displayed on a third line, and the phone memory location is displayed in the upper right corner.

3 Press and hold ⊙, or press (SND), to call the number you selected.

Recalling an Entry by Memory Location

Each name and number you store is placed in a memory location numbered 01-99. Once you have stored names and numbers, you can recall them by memory location:

1 Press (RCL).

2 Enter the two-digit memory location of the phone number you want.

3 Press and hold ⊙, or press (SND) to call the number you selected.

Editing a Memory Location

After you store names and numbers in the Phone Book, you can edit the information or erase entries at any time.

1. Select Edit.
2. Recall the entry by location or by name.

   (See "Recalling an Entry by Name" and "Recalling an Entry by Location" on page 30.)
3. Press ⊙ to begin editing the phone number.

   The display shows the name briefly, then the phone number.
4. Press CLEAR to erase one digit at a time.

   Press and hold CLEAR to erase the entire number.
5. Enter your changes to the phone number.
6. Press ⊙ when you finish editing the phone number.

   The display shows the location where your number is currently stored.
7. Press CLEAR to erase the memory location, then enter a new two-digit location.

   or

   Press ⊙ to keep the phone number in its current location.

   The display shows the name stored with the phone number you are editing.
8. Enter your changes to the name. (See "How to Enter a Name" on page 22.)

   Press CLEAR to erase one letter at a time, or skip to step 9 to leave the name unchanged.
9. Press ⊙ when you finish editing the name. The display shows the new information.
10. Press ⊙ to save your changes.

    Your phone confirms your entry by displaying the location, number, and name you stored.

    or

    Press CLEAR to leave the information unchanged.

    When you see Location ___, enter a new two-digit memory location to avoid overwriting the information in the current location.
11. Press END to exit, or scroll to other features.

Clearing a Phone Memory Entry

Clearing an Entry by Name

1. Recall by name the entry that you want to erase. (See "Recalling an Entry by Name" on page 22.)
2. Press CLEAR to clear the entry.

   You will see Clear Entry?.
3. Press ⊙ or STORE to confirm that you want to erase the entry.

   The numbered location of the cleared entry is shown in the display.

Clearing an Entry by Location Number

1. Recall by location the entry that you want to erase.
2. Press CLEAR to clear the display.
3. Press STORE and the location you want to clear.

   You will see XX Full Change?
4. Press STORE to confirm that you want to erase the entry.

To edit an entry in the phone book, see "Editing a Memory Location".

Shortcuts for Recalling Phone Book Entries

Using Speed Dial

If you know the memory location of the number you want to call, try the Speed Dial function:

1. Enter the two-digit memory location (01-99).
2. Press and hold ⊙ until you hear a two tone alert , or press (SND) to place the call.

Using the Turbo Dial™ Function

The Turbo Dial™ function enables you to dial numbers stored in locations 01-09 with the push of a single button:

Press and hold a number (1) - (9) on the keypad. You will hear a two-tone alert and then your call will be placed.

Your phone's Priority Call feature gives you fast access to any number stored in location 01. To learn more about this feature, see "Activating Priority Calling" on page 41.

Making Notes on the Scratchpad

In addition to your internal phone book, you also have a built-in scratchpad for making quick notes. The scratchpad remembers the last phone number shown on your display.

Entering a Number in the Scratchpad

If you are on the phone and your party gives you another number to call, enter the number on the scratchpad so you can place the call later.

1. Enter the number into the keypad. (The person on the line can hear tones as you dial.)
2. Press (END) to end the current call, if necessary.
3. Press (SND) to call the number you saved on the Scratchpad.

Storing Numbers During a Call

You can also store numbers during a call:

1. Enter the number into the keypad. (The person on the line can hear tones as you dial.)
2. Press (STORE) and continue storing with step 3 in "Storing Names and Numbers" on page 21.

Using the Menu System

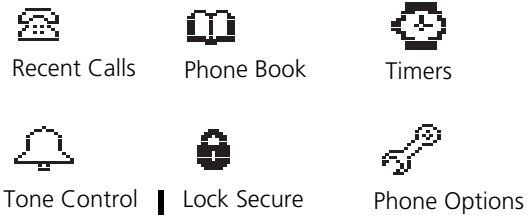
Your cellular phone includes many features to help you be more productive. The phone's user-friendly menu system helps you find what you need quickly and easily.

In this section you will learn:

- what are the main menu features
- how to navigate through the menus
- how to read a menu road map

Introducing the Menu Features

As you scroll through the menu system, you will see the following icons, each representing a high-level menu.



☞ *The Menu Features can also be accessed by pressing* FCN 1 *or* FCN ⊕.

Navigating the Menu

You can navigate through the menu system using the volume keys located on the left side of the phone and the Smart Button located on the right side of the phone. Use the upper and lower volume keys to scroll to sub-menus. Use the Smart Button to choose menus and functions.

Follow these symbols as a guide for using the keys on the side of your phone:

Press ⊕ to scroll up.

Press ⊖ to scroll down.

Press ⊕ to select.

You can also use your phone's ◂✱ and #▸ keys to scroll through the menu system.

Road Maps

To help you navigate through the phone's menu system, each section begins with an easy-to-follow visual "road map." To enter the menu features:

1 Press FCN ⊕

or

Press FCN 1

"menu" is printed on the 1 key as a reminder.

2 Press ⊕⊖ to scroll through the menu's top level

3 Press END to exit the menu.

Detailed instructions within each section describe how each feature works.

MENU

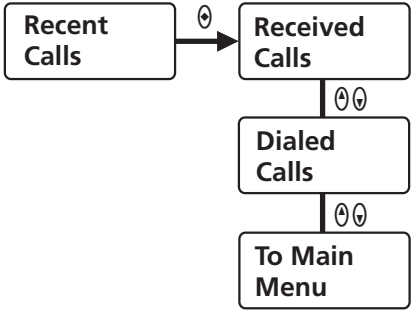
Managing Recent Calls ☎

The recent calls menu option allows you to access your Caller Line ID and review previous calls.

In this section you will learn how to review all calls that you have received or dialed.

Start:

MENU



About Recent Calls

The Recent Calls menu allows you to review previous calls that you have received or dialed. Following are some useful tips and information about reviewing recent calls.

- Your cellular phone can store the telephone numbers and names of the last thirty incoming calls.
- If the caller's phone number matches a phone number stored in the phone's memory, the phone automatically displays the name associated with that phone number.
- If you subscribe to call waiting and receive a call while another call is in progress, you hear a call waiting tone, and the caller's name and number appear on the display. The name and number are automatically stored and can be viewed after ending the call, using the procedure described in "Reviewing Received Call" on page 27.
- Caller Line ID allows you to view the name and number of the calling party in the phone's display while the phone is ringing.

  Caller Line ID is an optional feature that is not available in all markets. Contact your Service Provider for availability information.
- If the caller has restricted transmission of the phone number, your phone displays `Anonymous`. If the Calling Number ID information is not available to the cellular network, your phone displays `Unavailable`.

- You can store any number contained in your Caller Line ID memory to a memory location in the same way you would save any phone number. Once the correct number is displayed, press STORE and a memory location or STORE ◄✱ to autoload. See "Storing with the Menu" on page 30 for more information on storing phone numbers.
- The number of received calls is displayed when you select Received Calls. However, if a call is private or has no Caller Line ID number, then its actual phone number is not displayed and will not be included in the count of missed calls.

Reviewing Received Call

Press RCL RCL to view your received calls. You must hold the second RCL until the received call list is displayed.

1. Select `Received Calls`. The total numbers of received calls stored is displayed in the upper right corner. If there are no numbers in the Caller Line ID list, you will see `00` in the upper right corner.
2. Press ● to enter your Caller Line ID list of received calls.
3. Press ▲▼ to scroll through the list.

   The display shows the order in which the call was received in the upper right corner, with the phone number and name of the calling party (if available).

   The received call list can range from `01` (the most recent previous phone call) to `30` (the least recent phone call).

   The following symbols appear next to the received calls:

☎	Answered
☎	Missed

4. Press SND to dial the displayed number.

MENU

Reviewing Dialed Calls

Press RCL 0 0 to enter your dialed calls list.

1 Select Dialed Calls.

The total number of dialed calls that are stored is displayed in the upper right corner (below the battery symbol). You can see up to the last twenty numbers dialed. If there are no numbers in the Dialed Call list, you will see 00.

2 Press ⊕ to enter your dialed calls list.

3 Press ⊕⊖ or ◄✱ #► to scroll through the list. The dialed call list can range from 01 (the most recent dialed phone call) to 20 (the least recent dialed phone call).

The display shows the order of the previously dialed phone call in the upper right corner, with the phone number and name (if available) of the party called.

4 Press SND to dial the displayed number.

Clearing Caller Line ID

To erase **all** *entries you must press and hold CLEAR, whereas to erase a* **single** *entry you simply press CLEAR.*

To **erase all entries** saved in your Caller Line ID memory:

1 Select Received Calls.

2 Press and hold CLEAR when a Caller Line ID name and number is displayed. You will see Clear All?.

3 Press ⊕ or STORE to clear.

or

Press END to leave your Caller Line ID memory intact. You will see Entry Not Cleared.

To **erase a single entry** saved in your Caller Line ID memory:

1 Press CLEAR when a Caller Line ID name and number is displayed. You will see Clear Entry?.

2 Press ⊕ or STORE to clear.

or

Press END to leave your Caller Line ID memory intact.

Managing the Phone Book

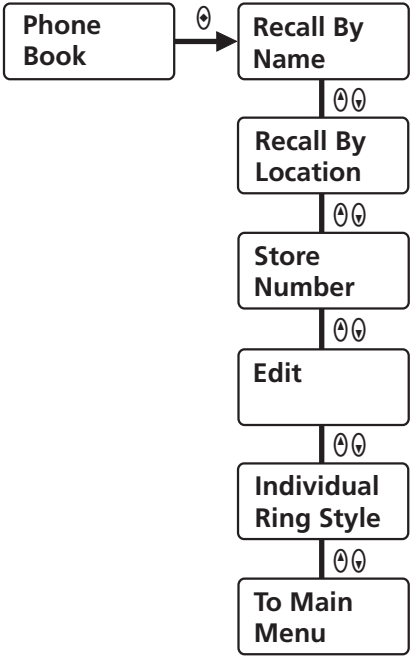
In "Using Phone Memory" you learned how to store and recall phone numbers with the internal Phone Book. You can access the same features, along with several advanced features, using your phone's convenient menu system.

In this section you will learn how to:

- recall and store phone numbers using the menu system
- store numbers with pause dialing
- store calling card sequences for easy access
- edit your memory information
- select the individual ringer style

You can also recall phone numbers without using the Phone Book. See "Recalling an Entry by Name" on page 22 or "Recalling an Entry by Memory Location" on page 22.

Start:



MENU

MENU

Recalling an Entry by Name

To recall a stored name with the Phone Book menu:

1. Select Recall By Name. You will see Enter 1st Letter.
2. Enter the first letter of the name you want to recall. The display shows the first name in the phone book that begins with that letter. If no entry beginning with that letter is found, No A's is displayed.
3. Press ▲▼ to scroll to the name you want.
4. Press and hold ●, or press SND to call the number you selected.

Recalling an Entry by Location

Each name and number you store is placed in a memory location numbered 01-99. After storing names and numbers, you can recall them by memory location with the Phone Book menu.

1. Select Recall By Location. You will see Location ___.
2. Enter the two-digit memory location of the number you want.
3. Press and hold ●, or press SND, to call the number you selected.

Storing with the Menu

Use the phone's menu system to store names and numbers into the Phone Book.

1. Select Store Number.You will see Enter Number.
2. Enter the phone number you want to store. See "How to Enter Letters and Numbers" on page 22.
3. Press ● when you finish entering the number.

   You will see Location ___.
4. Press ◄✱ to store the sequence in the next available location.

   or

   Enter the first digit of the memory location and press ◄✱ to store the sequence in the first available location beginning with that digit.

   or

   Enter the two-digit memory location where you want the sequence stored.

☞ *If the chosen location is full, press END and restart the storing sequence.*

5. You will see Alpha Or #. Enter a name to identify the phone number, or skip this step and continue with step 6. (See "How to Enter a Name" on page 22 for details on entering names.)
6. Press ●, or STORE, when you finish entering the name. Your phone confirms your entry by displaying the location, number, and name you stored. Proceed with step 7 below, or return to step 2 above to store more numbers.
7. Press END to exit the menu.

Storing and Placing Numbers with Pause Dialing

Entering a Pause in a Number

When you call automated systems, a recorded message prompts you for PIN numbers, Voice Mail numbers, etc.

You can store these numbers in your phone's memory, separated by "pauses"—special characters that tell your phone to wait before sending additional numbers.

1. Select `Store Number`.You will see `Enter Number`.
2. Enter the phone number you use to access the automated system.
3. Press FCN, then press SND.

   You will see `Insert Wait o`.
4. Press ⊙ to insert a pause (o) into the sequence.
5. Enter the next group of numbers (such as an account number or PIN number.)
6. Enter any other required symbols (such as * or #).
7. Insert another pause, and enter the next group of numbers by repeating steps 3 through 5 as many times as necessary.

   You can store up to 32 digits, including pauses. Then store the entire sequence as you would any phone number.
8. Press STORE to begin storing.

   You will see `Location __`.
9. Enter the two-digit memory location where you want the sequence stored.

   You will see `Alpha Or *`.
10. Enter a name for your sequence.

    (See "How to Enter a Name" on page 22 for details on entering names.)
11. Press ⊙ when you finish entering the name.

    Your phone confirms your entry by displaying the location, number, and name you stored.

Placing a Call with Pauses

To use your stored sequence:

1. Recall the stored number with the pause inserted.
2. Press and hold ⊙, or press SND, to place the call.
3. When the recording prompts you for information, press ⊙ or SND to send the next set of stored numbers.
4. Press ⊙ or press SND as many times as necessary, to transmit all the numbers.

Storing and Placing Numbers for Calling Card Information

Storing Calling Card Information

Like Pause Dialing, you can store calling card access numbers, separated by pauses, for recall later. You can also store a Number Character in the sequence to save a place for the number you call when you use your calling card.

See "Using Lock/Security Features" on page 39 for more information on protecting your calling card information.

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1. Select `Store Number`. You will see `Enter Number`.
2. Enter the phone number you use to access your calling card system. (Skip this step if you only dial 0.)
3. Press FCN SND You will see `Insert Wait o`.
4. Press ⊕ to insert a pause (o) into the sequence.
5. Enter the next numbers, if needed. (For example, some long distance carriers require you to dial a 0 first. If no further numbers are needed, skip to step 7.)
6. Press FCN SND.
7. Press ⊖ to scroll to the Number Character. You will see `Insert Number ´N`.
8. Press ⊕ to insert the `´N` Character.

   This special character saves a place for the phone number you will be calling. The number is inserted automatically when you place the call.
9. Press FCN SND.
10. Press ⊕ to insert another pause, as in steps 3 and 4.
11. Enter your calling card PIN number.
12. Press STORE to store your calling card sequence.

    You will see `Location ___`.
13. Enter the two-digit memory location where you want the sequence stored.

    You will see `Alpha Or #`.
14. Enter a name for your sequence. (See "How to Enter a Name" on page 22 for details on entering names.)
15. Press ⊕ when you are finished entering the name.

    Your phone confirms your entry by displaying the location, number, and name you stored.

Placing a Calling Card Call

To recall your stored calling card information:

1. Recall the calling card information you stored.

   (See "Recalling an Entry by Name" and "Recalling an Entry by Location" on page 30 for more information on Recalling Numbers.)
2. Press SND before entering the number. You will see `Enter Number`.
3. Enter the phone number you want to call, including the area code.

   Enter the number manually, by location, or recall.
4. Press and hold ⊕, or press SND, to place the call.

   Your phone dials the number to access your long distance provider.

5 Press ⊙, or press SND, to send the next group of numbers when you are prompted.

The phone automatically inserts the selected number to call at the appropriate time in the sequence.

6 Repeat step 5 to send the next group of numbers as many times as necessary.

Assigning an Individual Ring Style to a Phone Book Entry

You can use the individual ring style feature to assign one of nine ring styles to alert you of an incoming call from a phone number listed in your phone book.

☞ *This feature will only operate if you subscribe to Caller ID from your service provider. Caller ID is not available in all areas.*

1 Follow the steps in "Adjusting Tone Controls" to select `Individual Ring Style`.

2 Select the phone book entry to which you want to assign an individual ring style.

a. Enter the first letter of the name entry associated with the phone number.

b. Scroll up and down to reach the desired phone book entry.

3 When you reach the phone number you want, select it by pressing ⊙ or STORE.

The display will show `Press 0-9, 0=OFF`.

4 Press ⊙ to assign the default ring style for the number.

or

Press an entry from 1 to 9 to select one of the nine ring styles.

5 Press ⊙ or STORE to select that ring style.

The display confirms the selection by showing `Ring Style Assigned`.

6 press END to exit, or scroll to other features.

MENU

Timing Your Calls

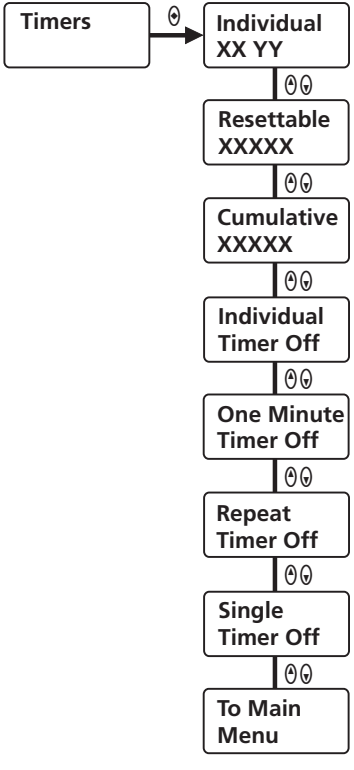
Your phone's Call Timers give you a variety of options for managing your time. You can monitor the length of individual calls, set a timer to track monthly usage, or have the phone alert you at intervals that you specify.

In this section you will learn how to:

- view the timers
- monitor the length of your calls
- set and view the resettable timer for long-term monitoring
- program audible timers for your individual needs

MENU

Start:



Viewing the Individual Call Timer

Press RCL #▸ #▸ for a quick look at this timer.

You can view the air-time of the most recent call or the call in progress (in minutes and seconds) at any time using this feature. The Individual Call Timer resets when you place the next call and when you turn the phone off. You can also choose to have the timer display while calls are in progress. See "Displaying the Individual Timer Automatically" on page 35.

1. Select `Individual XX YY`. The display shows the air-time of your last call in minutes (*XX*) and seconds (*YY*).
2. Press END to exit, or scroll to other features.

Viewing the Resettable Call Timer

Press RCL #▸ #▸ #▸ for a quick look at this timer.

You can track how much air time you have accumulated at any time. Use this feature to view the time elapsed.

1. Select `Resettable XXXXX`. The display shows your air time in minutes since you last reset the timer.
2. Press END to exit, or scroll to other features.

Viewing the Cumulative Timer

Press RCL #▸ #▸ #▸ #▸ for a quick look at this timer.

This is a non-resettable timer that keeps track of your phone's total air time (in minutes).

1. Select `Cumulative XXXXX`. The display shows your air time in minutes since your phone was activated.
2. Press END to exit, or scroll to other features.

Displaying the Individual Timer Automatically

Activating the Individual Timer may reduce both standby and talk times.

When you turn this feature on, your phone automatically displays your air time in minutes (*XX*) and seconds (*YY*) during and after each call.

1. Select `Individual Timer`. You will see `Individual Timer Off` or `Individual Timer On`.
2. Press ⊙ to toggle between `Individual Timer Off` and `Individual Timer On`.
3. Press END to exit, or scroll to other features.

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MENU

Setting the One-Minute Audible Timer

Activate this feature to hear an audible beep 10 seconds before the end of every minute during a call. The party on the other end does not hear the beeps.

1. Select `One Minute Timer`. You will see `One Minute Timer Off` or `One Minute Timer On`.
2. Press ⊙ to toggle between `One Minute Timer Off` and `One Minute Timer On`.
3. Press END to exit, or scroll to other features.

Setting the Repeating Audible Timer

You can set this timer to beep during your calls at an interval that you select—from 11-999 seconds. You will hear the beep 10 seconds before the end of each interval, but the party on the other end does not hear the beeps.

1. Select `Repeat Timer`. You will see `Repeat Timer Off` or `Repeat Timer On`.
2. Press ⊙ to toggle between `Repeat Timer Off` and `Repeat Timer On`.

   The prompt to enter seconds appears **only** if you have turned the feature on. If you have turned it off, you will see `Repeat Timer Off`.
3. Enter the number of seconds you would like between audible beeps. You will see `Beep At YYY Secs`.
4. Press ⊙ to set the timer. The phone confirms the setting by displaying `Set At YYY Secs`.
5. Press END to exit, or scroll to other features.

Setting the Single Timer

Like the Repeating Timer, you can set the Single Timer to beep at a time that you select—from 11-999 seconds. It beeps once during each call, 10 seconds before the end of the interval. The party on the other end does not hear the beep.

1. Select `Single Timer`. You will see `Single Timer Off` or `Single Timer On`.
2. Press ⊙ to toggle between `Single Timer Off` and `Single Timer On`.

   The prompt to enter seconds appears **only** if you have turned the feature on. If you have turned it on, you will see `Single Timer Off`.
3. Enter the number of seconds you would like between audible beeps. You will see `Beep At YYY Secs`.
4. Press ⊙ to set the timer. The phone confirms the setting by displaying `Set At YYY Secs`.
5. Press END to exit, or scroll to other features.

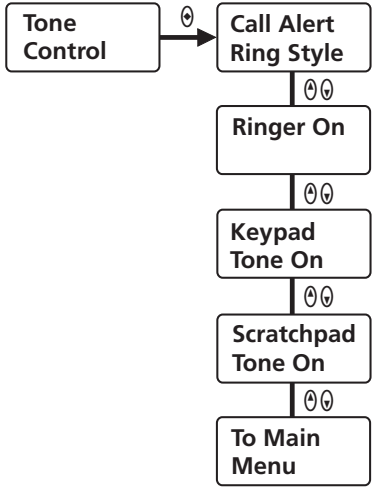
Adjusting Tone Controls

Use these features to personalize your phone's ringer styles, or turn the ringer off.

In this section you will learn how to:

- choose from nine different ringer styles
- turn the ringer on or off
- silence the keypad
- silence the scratchpad

Start:



MENU

Selecting a Ring Style

Your phone lets you select any of nine different ring styles. After you choose a style, the phone give you a brief sample of the new ring style.

1. Select `Call Alert Ring Style`.
2. Press 1 through 9 to hear the different ring styles, or scroll through the ring styles. `Ring Style 1` is the default setting.
3. Press ⊙ when you reach the ring style you want.
   The display will show `Ring Style X Set`.
4. Press END to exit, or scroll to other features.

Turning Ringer On and Off

1. Press ⊙ to toggle the ringer on or off.

Turning Keypad Tones On and Off

Keypad tones are the sounds you hear when you press any key on the phone. By default, keypad tones are turned on. If you want to be discreet, use this feature to silence the audio feedback from the keypad.

☞ *The other party still hears tones.*

1. Select `Keypad Tone`. You will see `Keypad Tone On` or `Keypad Tone Off`.
2. Press ⊙ to toggle between `Keypad Tone On` and `Keypad Tone Off`.
3. Press END to exit, or scroll to other features.

Turning Scratchpad Tones On and Off

Scratchpad tones are the tones that your phone sends to access automated calling systems like Voice Mail. By default, scratchpad tones are turned on. If you don't want your party to hear these sounds when you use the scratchpad, turn the scratchpad tones off.

1. Select `Scratchpad Tone`. You will see `Scratchpad Tone On` or `Scratchpad Tone Off`.
2. Press ⊙ to toggle between `Scratchpad Tone On` and `Scratchpad Tone Off`.
3. Press END to exit, or scroll to other features.

☞ *If you turned the scratchpad tones off but want to access a tone-activated system like Voice Mail, place the call, enter the numbers you need to transmit, then:*

Press RCL SND to send the tones.

MENU

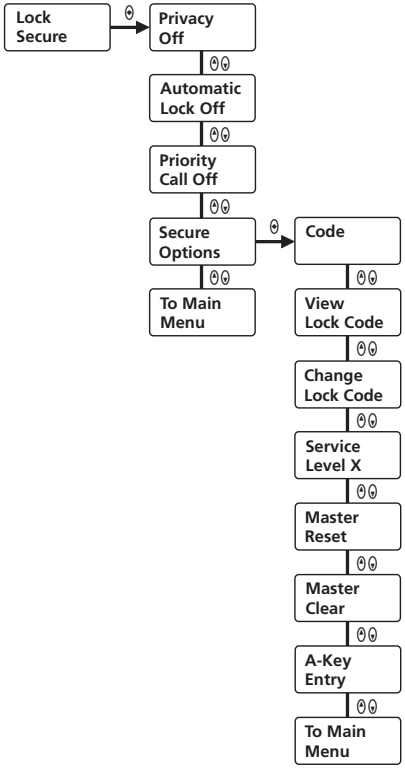
Using Lock/Security Features

While you probably would not want to leave your phone unattended, your phone has a number of built-in security features to prevent unauthorized use.

In this section you will learn how to:

- activate the Voice Privacy feature
- lock and unlock your phone
- place priority calls
- change your lock code
- restrict call placement and memory access
- reset or clear your phone's settings

Start:



MENU

Activating Voice Privacy

☞ *Network and subscription dependant feature. Not available in all areas.*

When you activate your phone's Voice Privacy feature, you request your cellular system to search for a Voice Privacy channel with each call. If no Voice Privacy channel is available (or your call is "handed off" to a cell where a Voice Privacy channel is not available), five short beeps alert you that the call is no longer private.

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You must select the Voice Privacy feature before you make a call in order for that call to search for a Voice Privacy channel.

☞ *This feature is not available in all markets. Contact your Service Provider for additional information about your service area.*

To turn the Voice Privacy feature on or off:

1. Select Voice Privacy. You will see `Privacy Off` or `Privacy Preferred`.
2. Press ⊙ to toggle between `Privacy Off` and `Privacy Preferred`.
3. Press END to exit, or scroll to other features.

Locking/Unlocking Your Phone

For your protection, you must enter the six-digit security code to access the features that your phone contains. The factory-programmed lock code for unlocking the phone is 123. The six-digit security code is 000000. These may have been changed when your phone was activated.

Locking Your Phone Automatically

Press FCN, the Smart Button, 1 5, and continue with step 2.

When you turn this feature on, your phone automatically locks itself each time you turn it off.

1. Select `Automatic Lock`. You will see `Automatic Lock Off` or `Automatic Lock On`.
2. Press ⊙ to toggle between `Automatic Lock Off` and `Automatic Lock On`.
3. Press END to exit, or scroll to other features.

Locking Your Phone Manually

You can lock your phone manually at any time to prevent unwanted use. Once you lock the phone, it remains locked whether it is powered on or off.

1. Press FCN.
2. Press and hold 5 for at least one full second.You will see `Lock?`.

☞ *"LOCK" is printed on the 5 key, as a reminder.*

3. Press STORE or ⊙ to lock. You will see `Locked`.

Unlocking Your Phone

To unlock your phone:

Once your phone is on, **enter your three-digit lock code** to unlock your phone. (See "Viewing the Lock Code" on page 41 and "Changing the Lock Code" on page 41 for more information on your lock code.)

Answering Calls While the Phone Is Locked

You can still receive calls when the phone is locked. To answer an incoming call:

1. Enter your three-digit lock code.
2. Press and hold OK, or press SND to receive the call.

If you forget your lock code, try pressing 1 2 3 or the last three digits of your cellular phone number.

Activating Priority Calling

Press FCN, the Smart Button, 2 9, and continue with step 2.

Priority Call allows the Turbo Dial™ function to dial from memory location 01—even when the phone is locked. You can store an emergency number or the number of someone you would like to contact in case of emergency.

Some cellular systems have their own emergency numbers and deny access to emergency numbers like 911 (not available in some areas). Check with your Service Provider for more information.

By default, Priority Call is activated. To turn it off or to switch it back on, complete the following steps:

1. Select `Priority Call`. You will see `Priority Call Off` or `Priority Call On`.
2. Press OK to toggle between `Priority Call Off` and `Priority Call On`.
3. Press END to exit, or scroll to other features.

Viewing the Lock Code

To display the active three-digit lock code:

1. Select `Secure Options` and enter your six-digit security code.
2. Select `View Lock Code`. You will see `View Lock Code.`
3. Press OK to display your three-digit lock code. The code appears for a few seconds.
4. Press END to exit, or scroll to other features.

The Standard Factory default for the six-digit security code is 000000, and for the three-digit lock code it is 123.

Changing the Lock Code

To change your three-digit lock code:

1. Select `Secure Options` and enter your six-digit security code.
2. Select `Change Lock Code`. You will see `Enter Code ___.`
3. Enter the new three-digit code. You will see `Changed To XXX`.
4. Press END to exit, or scroll to other features.

MENU

If you try to change your lock code to 911 or the first three digits of an emergency number, you will see Code Invalid, *and the code you entered* **will not** *be accepted. You will return to step 1 above.*

Restricting Call Placement

Network and subscription dependant feature. Not available in all areas.

You may want to restrict call placement or hide memory information when loaning your phone to others.

MENU

Selecting a Service Level

1. Select Secure Options and enter your six-digit security code.
2. Select Service Level. The phone displays your current service level. Refer to the chart on the next page.
3. Press ⏶⏷ to scroll through the service level settings, and press ⊙ to select the service level you want.

   If you select Level 7, the phone prompts you for the range of memory locations you want to remain active. You will see Range 1-——.

   Enter the range of digits memory locations from which calls are allowed. The phone confirms the allowed range, and you will see 1-XX Allowed.
4. Press END to exit, or scroll to other features.

Service Level Settings

Each of your phone's eight service levels offers a different combination of access privileges and restriction.

Caller Line ID is an optional network and subscription feature that is not available in all areas.

Level	Description	Display
1	• Calls can be placed from memory locations 1-10 only. • No dialing from keypad • No memory edit or storage • No access to name directory • No access to last number dialed	1 Memory 1-10
2	• Calls can be placed from all memory locations. • No dialing from keypad • No memory edit or storage • No access to Caller Line ID stack or Last Number Dialed	2 Memory Only
3	• Calls can be placed manually from the keypad only. • No access to memory information • No memory edit or storage • No access to Caller Line ID stack or Last Number Dialed	3 Keypad Only
4	Standard setting, no restrictions	4 Standard Setting
5	Seven-digit (local) dialing only	5 Local Only

Level	Description	Display
6	• Calls can be placed from the keypad and from memory. • No edit or memory storage to memory locations 1-10	6 No Store 1-10
7	• Calls can be placed from a selected memory range only. • Memory edit and storage allowed with the selected range. • No access to name directory	7 Allow Range
8	No edit, storage, or recall from memory locations 1-9	8 Hide Turbo

Resetting All Options

Use the Master Reset feature to reset all user-selectable options back to their original factory settings.

☞ *Once you select this feature, the reset process cannot be canceled or reversed.*

1. Select Secure Options and enter your six-digit security code.
2. Select Master Reset.
3. Press ⊙ if you want to reset all your phone's options back to their factory settings. You will see Standard Setting.

   or

   Press END to exit the menu if you do not want to reset your phone's options.
4. Press END to exit, or scroll to other features.

Clearing All Stored Information

If you want to start over, use Master Clear to reset all user-selectable options, clear the resettable timer, and erase all Phone Book information.

☞ *Once you select this feature, the process cannot be canceled or reversed.*

1. Select Secure Options and enter your six-digit security code.
2. Select Master Clear.
3. Press ⊙ to clear the memory and reset all your phone's options back to their factory settings. You will see Busy. (This takes a few seconds.)

   or

   Press END to exit the menu if you do not want to reset your phone's options.
4. Press END to exit, or scroll to other features.

MENU

Authenticating Users

Your phone is equipped with an authentication feature called the A-Key, which acts like a PIN number and helps prevent unauthorized use of your phone. Contact your Service Provider for your personalized A-Key number.

☞*This feature should only be programmed once.*

MENU

1 Select A-Key Entry. The display shows the phone's active phone number.

If the number displayed is not the number you want for the A-Key, press ◄✱ or #► to switch to the second programmed number. Your phone uses this number once you exit this feature.

2 Press ● to select.

Enter the 6- to 26-digit A-Key number as supplied by your Service Provider. Press CLEAR to correct errors.

3 Press ● or STORE to validate the A-Key entry.

- If you enter the A-Key correctly, you will see Valid.
- If you enter the A-key input incorrectly, you will see Invalid. Re-enter your A-Key.

4 Press END to exit, or scroll to other features.

Customizing Phone Options

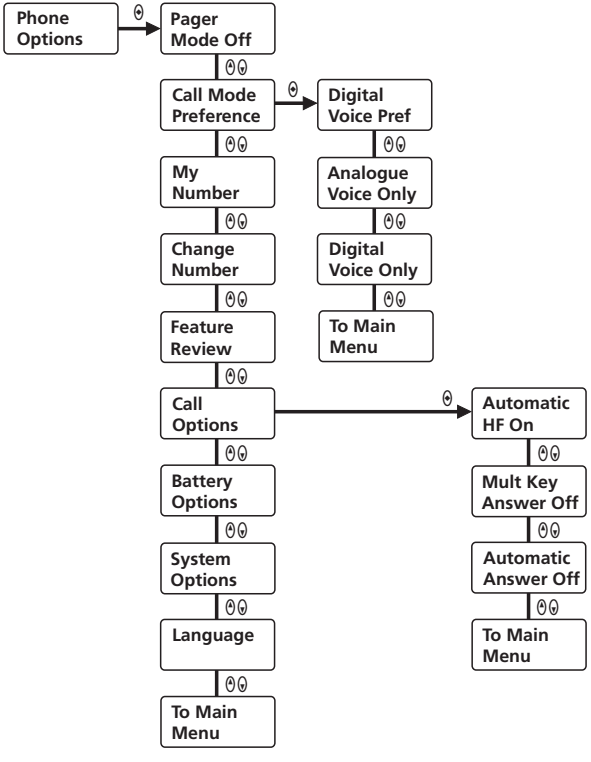
The Phone Options menu lets you customize the way your phone sends and receives calls.

You can tune your phone for optimal performance, view information about the phone, and choose from a number of convenient features.

In this section you will learn how to:

- activate pager mode
- switch between analog or digital mode
- view your own phone number
- switch cellular phone numbers
- select the type of cellular system
- review your phone's feature settings
- select features for vehicular use
- conserve battery power
- display your system identification
- select a language

Start:



MENU

Activating Pager Mode

When Pager Mode is activated, the phone simulates a pager. Pager Mode suppresses incoming call alerts but leaves message alerts active. The following conditions occur:

- Voice call alerts are suppressed.
- Message alerts are allowed.

By default, Pager Mode is turned off. Complete the following steps to turn Pager Mode on and off.

MENU

1. Select `Pager Mode on/off`. The display shows your current Pager Mode setting.
2. Press ⊙ to toggle between Pager Mode on and off.
3. Press END to exit, or scroll to other features.

Selecting Call Mode Preference

☞ *Network and subscription dependant feature. Not available in all areas.*

Either a digital or analog channel can be assigned to your phone, based upon system channel availability.

Examples of peripheral devices that require analog operation include fax machines, personal computers with modems, and telemetry monitors (EKG). You must select this feature before a call originates in order for the call to be analog.

☞ *If this feature is selected during a call, the feature is effective with the next call. Press FCN 2 to switch between digital and analog mode.*

☞ *When powered on, your cellular phone first searches for a digital channel. If no digital channel is available, your phone switches to an analog channel.*

1. Select `Call Mode Preference`.
2. Press ⊙ to toggle among `Digital Voice preferred`, `Analog Voice Only`, or `Digital Voice Only` modes.
3. Press ⊙ to make your selection.
4. Press END to exit, or scroll to other features.

☞ `Analog only` *is a temporary setting that is only active until you change the setting or you turn the phone on and off.*

! *If you select either Analog Voice Only or Digital Voice Only, you will not be able to make a call if the selected system is not available.*

Viewing Your Own Number

Press RCL #▸ for a quick look at your phone number.

Use this feature to view your phone's currently active phone number. If you have more than one phone number, you can change the active number with the Change Number feature in the Phone Options menu. (See "Switching Between Numbers" on page 47.)

1. Select `My Number`.
2. Press ⊙ to view your own phone number.

   Your active phone number appears on the screen. After six seconds, the phone returns to step 1.
3. Press END to exit, or scroll to other features.

Switching Between Numbers

Your phone can operate on two different home systems. If you travel often, you can have your phone programmed with two cellular numbers to reduce roaming. This feature allows you to change your active number to the one appropriate for the area you are in.

When your phone has two numbers, both are designated as your home system but only one number can be active at any given time. Calls are placed and received by the currently active number only. Each time you turn your phone **ON**, you'll see a message in the display that indicates which phone number and home system are currently active:

Non-wireline type with phone number 1	A1
Non-wireline type with phone number 2	A2
Wireline with phone number 1	B1
Wireline with phone number 2	B2

In most areas, there are two competing cellular carriers, the *wireline* carrier and the *non-wireline* carrier. Your display indicates which type of carrier your home system is as follows:

non-wireline carrier—The display indicates that your home system is system A.

wireline carrier—The display indicates that your home system is system B.

To switch your phone number:

1. Select `Change Number`. The active phone number appears in the display (for example, `5155551515`).
2. Press ⊙ to switch to your other phone number (for example, `7085551212`).
3. Press ⊙ to confirm the new setting. You will see `Display Set`.
4. Press END to exit, or scroll to other features.

Reviewing Feature Settings

Use this feature to review the changes you've made to feature settings.

☞ *While scrolling through Feature Review, you can only review settings. You cannot change them.*

1. Select `Feature Review`.
2. Press ⊙, or press ◄✱ or #► to scroll through features you changed from their default settings.

   If all of the features are set to the factory standard settings, the display shows `Standard Setting`.
3. Press END to exit the menu.

MENU

Call options

Activating Automatic Hands-Free

Press FCN, the Smart Button, 2 8, and continue with step 2.

Turn this feature on when you are using Hands-Free vehicular accessories.

The use of wireless telephones and their accessories (devices) may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these devices.

1. Select `Automatic HF`. You will see `Automatic HF On` or `Automatic HF Off`.
2. Press ⊙ to toggle between `Automatic HF On` and `Automatic HF Off`.
3. Press END to exit, or scroll to other features.

Activating Multiple Key Answer

Turn on the Multiple Key Answer feature to answer calls by pressing the Smart Button, or any key on the upper keypad with the exception of the power key ⏻.

1. Select `Mult Key Answer`. You will see `Mult Key Answer On` or `Mult Key Answer Off`.
2. Press ⊙ to toggle between `Mult Key Answer On` and `Mult Key Answer Off`.
3. Press END to exit, or scroll to other features.

Activating Automatic Answer

Turn Auto Answer on to have your phone automatically answer incoming calls after two rings.

Auto Answer does not work if Pager Mode is activated.

1. Select `Automatic Answer`. You will see `Automatic Answer On` or `Automatic Answer Off`.
2. Press ⊙ to toggle between `Automatic Answer On` and `Automatic Answer Off`.
3. Press END to exit, or scroll to other features.

Selecting Battery Options—Status Light

This feature enables you to turn off the Power/Status Indicator. Turn this mode on to increase talk or standby times.

1. Select `Battery Options`. You will see `Status Light On` or `Status Light Off`.
2. Press ⊙ to toggle between `Status Light On` and `Status Light Off`.
3. Press END to exit, or scroll to other features.

Displaying System Identification

This feature shows the System ID number that identifies the cellular system your phone is currently accessing. An even number indicates a wireline system, while an odd number indicates a non-wireline system.

1. Select the `System Options` sub-menu. You will see `Display SID`.
2. Press ⊙ to view the System ID number. After six seconds, the phone goes back to step 1.
3. Press END to exit, or scroll to other features.

Selecting Language

This feature enables you to select the language in which your phone displays prompts and messages.

1. Select the `Language` sub-menu.
2. Press ⊙ to scroll through the language options. The choices include English, Spanish, French, Portuguese, Hebrew, and Russian. `English`, `Espanol`, `Francais`, `Portuguesa`, `Hebrew`, and `Russian`.
3. Press ⊙ to select the language setting you want.
4. Press END to exit, or scroll to other features.

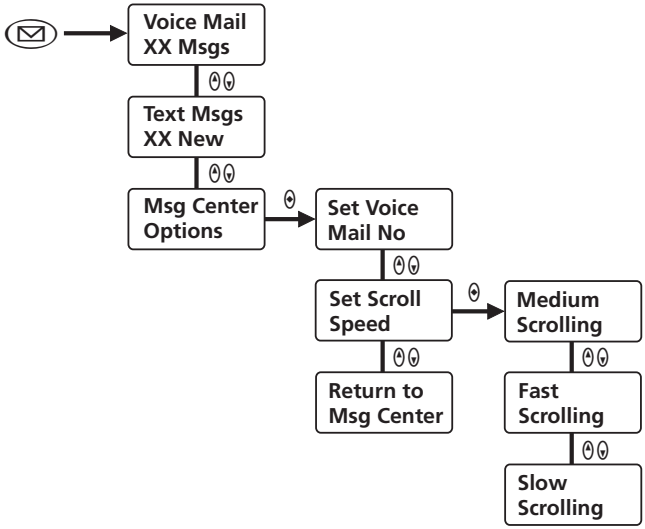

MENU

☞*Network and subscription dependant feature. Not available in all areas.*

The Message Center gives you easy access to both voice mail and your text messages. In this section you will learn how to:

- use voice mail
- edit a phone number to access voice mail
- use short messaging services (SMS) to view, lock/unlock, and clear messages
- adjust speed of your scrolling messages

Start:



Voice Mail Alerts

This feature updates you each time a message is sent to your voice mail number, providing you with real-time information on messages waiting to be retrieved.

When a voice mail message is received:

- Voice Mail XX Msgs appears.
- The ✉ icon appears.
- The phone beeps three times for a message.

Dialing Voice Mail

You can retrieve your voice mail messages in one of two ways.

From the Voice Mail Alert Screen

When you receive a voice mail alert and the Voice Mail XX message appears, press ⊙ to dial your voice mail number.

Your access number for the voice mail center is dialed automatically, and Dialing XXXX appears on the display, where XXXX is your access number.

From the Message Center

1. Press (✉)
2. Press ⊙ or (✉) to dial your voice mail number.

Your access number for the voice mail center is dialed automatically, and Dialing XXXX appears on the display, where XXXX is your access number.

Editing the Voice Mail Number

This feature allows you to save your voice mail access number.

☞ *When you receive your phone, the default voice mail number is your phone number.*

1. Press (✉) to enter the message center.
2. Select **Msg Center Options.**
3. Select Set Voice Mail No.
4. Enter your voice mail number.

   The digits appear as you enter them.
5. Press ⊙ or (STORE).

   A message confirms that your number has been saved.

☞ *If you subscribe to a system that provides a shortcut number for voice mail, enter the complete number—not the shortcut number.*

6. Press (END) to exit, or scroll to other features.

Reading Text Messages

☞*Network and subscription dependant feature. Not available in all areas.*

Some Service Providers let you subscribe to a Short Message Service (SMS), which allows you to receive alphanumeric messages on your phone, just like a pager. Contact your Service Provider for information about the availability of messaging in your area.

SMS enables your phone to save up to 15 short messages, each up to 80 characters in length, or five full-length 239-character messages.

Your phone automatically replaces the oldest messages with the newest as they are received. You can store Call Back messages and numbers for later review. The one-touch Message Button makes viewing your messages easy.

How Your Phone Receives Message Alerts

New Message Alerts

If your phone is on and receives a new digital message, the phone alerts you in two different ways:

- Message Received appears in the display, and:
  - The message icon ✉ appears.
  - The phone beeps three times .

  or

- Urgent Msg Received or EMERGENCY MSG RECVD appears in the display, and:
  - The message icon ✉ appears.
  - The phone beeps five times .

Short Message Indicators

If the sender has marked the message "Emergency" or "Urgent," the display shows the message content on the first line and either Urgent or Emergency on the second line. The message number appears in the upper right of the display.

Selecting and Reading Short Messages

1 Press (✉) to enter the message center.

2 Press ⊙ to scroll to **Text Msgs.**

- If the message center has messages, you will see Text Msgs XX New, where *XX* is the number of unread messages.

  The total number of messages stored, *YY* appears in the upper right of the display.

- If the message center has no messages, you will see Text Msgs Empty, and 00 will appear in the upper right portion of the display.

3 Press ⊙ or (✉) to view the message headers.

If the message center is full, you will see Msg Memory Full displayed for two seconds prior to viewing the message headers.

4 Now you can scroll through a list of message headers. Each header includes:

- the message number
- its urgency
- the beginning of the message text

Press ⊕ to scroll forward or backward through the list of message headers. The newest message is placed at the top of the list, and the oldest message is at the bottom.

5 Press ⊕ to select and view a message, and then the message text appears, starting on the top line.

Press (✉) to halt the display of the message text. Press (✉) again to restart it.

6 After reading a selected message, press ⊕ to scroll through the list of message headers.

7 Press (END) or press and hold (✉) to exit, or scroll to other features.

Initiating a Call Back

When the current message has scrolled across the display, you can call back a number embedded in the text message.

1 Press and hold ⊕, or press (SND) to initiate a Call Back, if a Call Back number was included in the message.

You will see `Dial No.? XXXXXXX`.

If a Call Back number was not included in the text message, the phone dials the first number present in the text message.

2 Press ⊕, or press (SND) to dial the number shown.

or

Press ⊕ to search the text message for the next call back number.

☞ *While in the message center, you can enter a Call Back number at any time by using the keypad, and then pressing (SND) to place the call.*

Locking and Unlocking a Message

You can lock important messages to ensure their safekeeping for later review. A locked message cannot be deleted until the message is unlocked.

Press (FCN) (5), to toggle the current message between locked and unlocked.

`Msg Locked` is displayed when a message is locked.

☞ *If your message memory is full and a new message is received, the oldest unlocked message that has been read is deleted.*

Clearing Messages

Clearing the Current Message

1 Press (CLEAR) when the message you want to erase is on the display.

You will see `Clear Message?`, where *XX* is the number of the message you will clear. This number will appear in the upper right portion of the display.

2 Press ⊕ or (STORE) to clear the message.

You will see `Message Cleared`.

or

Press (END) or any other key if you do not wish to clear the message. You will see Msg Not Cleared.

☞ *You must unlock a locked message before you can clear it. For more information, see "Locking and Unlocking a Message" above.*

Clearing All Messages

To erase all the messages from your Message Center at once:

1. Press and hold (CLEAR) when you are in the message center.

   You will see Clear All?.

2. Press ⊙ or (STORE) to verify that you want all the messages cleared.

   or

   Press (END) if you decide not to clear all the messages. You are returned to the message center.

3. Press (END) to exit from the message center.

   If all messages have been cleared and no locked messages remain in the message center, Msg Center Empty appears in the display.

☞ *You must unlock any locked messages before they can be cleared. For more information, see "Locking and Unlocking a Message" on page 54.*

4. Press (END) to exit, or scroll to other features.

Setting the Scrolling Speed

To adjust the scrolling speed of your incoming messages:

1. Press (✉) to enter the message center.
2. Select **Msg Center Options.**
3. Select the Set Scroll Speed option.
4. Press ⊙ to scroll through scrolling speed settings:

- To scroll slowly, select Slow Scrolling.
- For medium scrolling, select Medium Scrolling.
- To scroll quickly, select Fast Scrolling.

5. Press ⊙ to select a scrolling speed.
6. Press (END) to exit, or scroll to other features.



The following accessories have been designed to work with your phone. Additional accessories may be available and are packaged separately. Please refer to your local service provider or retail outlet for more information.

Travel Charger

The Power Adapter (charger) connects to the phone. When connected directly to the phone, it charges the battery and also provides dead battery operation after one or two minutes.

The Power Adapter requires an appropriate Adapter Plug.

Vehicle Power Adapter

☞ *The use of wireless devices and their accessories ("Devices") may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these devices.*

The Vehicle Power Adapter connects to your phone and allows you to charge your phone's battery while driving.

☞ *In some cars, the engine must be running in order for the cigarette lighter to operate.*

Headset

The convenient headset provides both an earphone and microphone for simple handsfree and private telephone conversations. The headset plugs directly into the jack on the top left of your phone, so that you can wear your phone and move freely.

Belt Clip

The Belt Clip holds the phone while being worn on your belt.

☞ *The belt clip has been designed for your convenience and is not meant to secure your phone under all circumstances.*

Accessory Limited Warranty Information

We recommend that you use Motorola original batteries and accessories. Under its limited cellular telephone warranty, Motorola specifically disclaims any responsibility for damage caused by the use of portable cellular telephone accessories not manufactured by Motorola.

For details on the complete line of Motorola cellular accessories, see your dealer or visit our Web site at

`http://www.mot.com/`



I pressed the power button, but nothing happened. What's wrong with my phone?	Make sure that you press and hold the power button until the display appears and you hear an audible alert. If nothing still happens, then check that you have installed the batteries and that the batteries are fully charged. For more information about batteries and charging see "Your Battery" on page 15.
The battery won't charge.	Check the alignment of the batteries to ensure that they are installed properly. Make sure the positive (+) and negative (-) marks on the batteries match the markings on the phone. Check the charger. Is it properly connected? Is it fully inserted? Are its contacts clean and dry? The phone should provide a beep-tone and the display should read "Charging Battery" within two minutes from the transformer being installed.Check the charger is fully inserted and properly connected. See 'Your Battery'.
My battery didn't last as long as I expected. What can I do to extend battery life?	Your battery's "talk-time" and "standby-time" are relative measurements of the battery's capacity. The more you talk on the phone, the less standby-time you have, and vice versa. To get the most from your battery, allow it to charge fully. To charge the battery to 100% of its capacity, leave it charging for an extra hour after the charger's light turns green. Certain features demand power from your battery and reduce battery life. If you have selected the Automatic Display of Individual Call Timer feature, the display uses battery power to remain active during each call. Turn this feature off to conserve battery energy. (See "Displaying the Individual Timer Automatically" on page 35 for more information on this feature.) Make sure that you are using batteries that are compatible with your phone. Exposing your battery to extreme temperatures—below -10°C (14°F) or above 45°C (113°F)—can shorten battery life. Batteries are especially sensitive to high temperature extremes. As a good rule, always take your phone with you when you leave your car.
The display says, "Locked." How do I unlock my phone?	Enter the last three digits of your cellular number. If that doesn't work, use the factory preset lock code: 123. If all else fails, call your service provider (the company that sends you your monthly cellular bill) for assistance. (See "Using Lock/Security Features" on page 39 for more information on Security Features.)
I tried to place a call and received a fast busy signal.	This sound means that the cellular system did not process your call. For example, the cellular system may be overloaded with call attempts. To redial the number, press (SND) before ending your call attempt, or press (END) and try the call again later. (See "Redialing a Number" on page 20 for more information on redialing.)



I tried to place a call and received an alternating high/ low tone.	This sound means your call did not reach the cellular system. You may have dialed the number too soon after turning the phone on. Wait until the "NS" light stops blinking before placing a call. An alternating tone may also indicate that your phone's signal is blocked. Make sure the antenna is fully extended and you're clear of any obstructions such as bridges, parking garages, or tall buildings.
I tried to listen to my Voice Mail (or use a paging service, a calling card, etc.) but nothing happened.	You have probably turned off the Scratchpad tones. Place your call, enter the access numbers when prompted by the recording, then press RCL SND. To avoid this problem in the future, follow the directions "Turning Scratchpad Tones On and Off" on page 38 to turn the Scratchpad tones on.
My phone was stolen. What should I report and to whom?	Report a stolen phone to the police and to your service provider (the company that sends you your monthly cellular service bills).
I tried to place a calling card call using the internal Phone Book, but it didn't work.	You may have turned off your Scratchpad tones. Follow the directions in "Turning Scratchpad Tones On and Off" on page 38 to turn the Scratchpad tones on. Check that you stored your calling card information in the correct order, and make sure the groups of numbers are separated by pauses. The easiest way to correct the sequence may be to start from scratch. Follow the instructions on "Storing Calling Card Information" on page 32, enter your calling card information again, and store it in the same memory location as your previous attempt. Also keep in mind that when using your calling card, you must enter the number you are calling with the area code, but without the initial "1." Check with your long distance carrier for details on using your calling card.



Patent Information

Manufactured under one or more of the following patents:

4121218	4127824	4128740	4138681	4193036	4254382
4302845	4312074	4327319	4329666	4369516	4369522
4378603	4390963	4398265	4400584	Re.31470	4431977
4434461	4455534	4462098	4484153	4485486	4486624
4491972	4504834	D278708	4523155	4546329	4549311
4550426	4551696	4564821	D282169	4571595	4573017
4574243	4585957	4602218	D284759	4616314	4617520
4626309	4628529	4629829	4630304	4630305	4633141
4636593	4636741	4644351	D288432	4648125	4649543
D288683	4654655	4654867	4662691	4667333	4668917
4670747	4672502	4692726	4704588	D292578	4706036
D292920	4710724	4711361	4715063	4716319	4716391
4723305	D294257	4727306	4727583	4730195	4734635
4737976	4740794	4741018	4741034	4742562	D295627
D295975	4751737	4761621	4764737	D297734	D297735
D297736	4777564	Re.32768	4783697	D299232	4797929
4798975	4800348	4802236	4803726	4809356	4811377
4811404	4816774	4817157	4823098	D300742	D300827
4827226	4827507	4829274	4829543	4837534	4843621
4845772	4851966	4868576	4872196	4873683	4876552
4876740	D304189	4879533	4885553	4887050	4890199
D305427	4896124	4896361	4897873	D305717	4903327
D306163	4904549	4905288	4905301	D306299	4910470
4912602	4916262	4918403	4918732	4922209	4924194
4930126	D309301	D309451	4945570	4954796	4956854
4963812	4963843	4965537	4970475	4972355	4972432
4972455	4975808	4982108	4984219	4989230	D314173
4992753	4998289	D315330	D315543	5004992	5008925
5010309	5010570	5014294	5014346	D316859	5017856
5018188	5020076	5020091	5020092	5020093	5023580
5023866	5023911	5025387	5028859	5029233	5036532
5040127	5042071	5045824	5053924	5055800	5055802
5055803	5057762	5058136	5059885	5060264	5060294
5063340	5065408	5067139	5068625	5070310	5077757
5081674	5083304	5093632	D325028	5107487	5109536
5111162	5113400	5113436	5117441	5117449	5121047
5121288	5121412	5122722	D327062	5124889	5127040
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5150384	5152006	5152007	5153590	5157693	5159283
5160898	5163159	5164652	5166596	5166642	5170173
5170492	5173672	5175759	5175874	5177458	5182749
5185566	5187640	5187809	5192924	5193223	5195106
5195108	5198887	5200655	5201069	5202654	5203009
D334746	5204977	5205751	5208566	5210793	5211581
5212815	5212826	5214675	5214774	5220290	5222078
5222104	5222251	5224122	5230007	5230093	5233506
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D342248 5276685 5276707 5276913 5278527 5278832
5278994 5280637 5280644 D343615 D343616 D343834
D343835 5287553 5287555 5287556 5289505 D344512
5297142 5299232 5301364 5301365 5308716 5312705
5321847 5323421 5325429 D348250 D348427 5327642
D348665 D348666 D348668 5331123 D349273 5336984
5338909 D350113 D350348 D350349 D350350 5349588
5351245 D351375 5359696 5361400 5363071 5365549
D352503 5366826 5367538 5367558 5371791 D353131
5373101 D353361 5375143 5375258 D353587 D353588
5379324 5384825 5392000 5392023 5396654 D356309
5402447 5404120 5404582 5406146 5406562 D357224
D357457 5410275 5414711 D358148 5420759 5424689
5428820 5428836 5430416 5432017 5434947 5436589
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5463628 5465412 5469177 5475752 D365094 5477192
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5493700 5493714 5495206 5497126 5497383 D367640
5499273 5504812 5506490 D368696 5508709 5510693
5511235 5513078 5513382 D369359 5513996 D369598
D369797 5519303 5519346 5519506 5519777 D370016
D370463 5526398 D370672 5530922 5539360 5542103
5542106 5544250 D372481 5546380 D372896 5551078
5555550 5559471 D374013 5561436 D374227 D374424
5565881 5570453 5572223 5572224 5577267 5577268
D375932 D375952

Other patents pending

Motorola Limited Warranty

I. What This Warranty Covers And For How Long:

Motorola Inc. (Motorola) warrants the Motorola PCS Subscriber Radiotelephone products and accessories against defects in material and workmanship under normal use and service for a period of time specified by the product's serial number from the date of installation.

☞ *A Installation, in the case of radiotelephones, accessories or batteries that are not installed in a vehicle, means the date that the product is placed into subscriber service. Installation will be deemed to be no later than thirty (30) days from date of delivery of the Product to you the owner.*

The warranty time period is specified by the last digit of the mechanical serial number found on each PCS product. Products sold under this warranty may have either a "P", "Y", "A", "B", "C", or "D" or nothing in the eleventh position of the serial number. If there is no letter or an "A", the product comes with a (1) one year warranty. Products that have a "D" have a (2) two year warranty. Products that have a "Y" or a "B" have a (3) three year warranty, and products that have a "P" or a "C" have a (5) five year warranty commencing from the date of installation. The warranty time period for radiotelephone accessories and batteries is as follows:

PCS portable telephone batteries 1 year

Carrying cases Defect free at time of shipment

Other radiotelephone accessories 1 year

Motorola, at its option, will, at no charge, either repair, replace, or refund the purchase price of the PCS Subscriber Radiotelephone Product during the warranty period, provided it is returned in accordance with the terms of this warranty to the Motorola National Service Center or Service Providers service shop qualified by Motorola. Repair, at Motorola's option, may include the replacement of parts or boards with functionally equivalent reconditioned or new parts or boards. Replaced parts or accessories, batteries or boards are warranted for the balance of the original time period. All returned accessories, batteries, parts and PCS telephone equipment shall become the property of Motorola.

II. Warranty Conditions:

This express limited warranty is extended by Motorola to the original subscriber buyer or lessee only and is not assignable or transferrable to subsequent subscriber buyers or lessees. This is the complete warranty for PCS Subscriber Radiotelephone Products by Motorola. Motorola assumes no obligation or liability for additions or modifications to this warranty unless made in writing and signed by an officer of Motorola. Unless made in separate written agreement between Motorola and you, Motorola does not warrant the installation, maintenance or service of the equipment, accessories, batteries or parts. Rechargeable batteries are warranted only if battery capacity falls below 80% of rated capacity, or the battery develops leakage. This warranty becomes void for all types of batteries if:

a. the batteries are charged by other than Motorola approved battery chargers specified for the charging of the battery.

b. any of the seals on the battery are broken or show evidence of tampering.

c. the battery is used in equipment or service other than the PCS radiotelephone equipment for which it is specified.

Motorola cannot be responsible in any way for any ancillary equipment not furnished by Motorola which is attached to or used in connection with Motorola's PCS Subscriber Radiotelephone Products, or for operation of our equipment with any ancillary equipment and all such equipment is expressly excluded from this warranty. Furthermore, Motorola cannot be responsible for any damage to Motorola equipment resulting from the use of ancillary equipment not furnished by Motorola for use with PCS subscriber equipment.

When the product is used in conjunction with ancillary or peripheral equipment not manufactured by Motorola, Motorola does not warrant the operation of the product/ peripheral combination, and Motorola will honor no warranty claim where the product is used in such a combination and it is determined by Motorola that there is no fault with the Motorola product. Motorola specifically disclaims any responsibility for any damage caused in any way by the use of portable radiotelephone accessories and peripherals (specific examples include, but are not limited to: batteries, chargers, adapters, and power supplies) when such accessories and peripherals are not manufactured or supplied by Motorola. Motorola disclaims liability for range, coverage, availability, or operation of the PCS System which is provided by the Service Provider.

III. What This Warranty Does Not Cover:

(a) Defects or damage resulting from use of the product in other than its normal and customary manner.

(b) Defects or damage from misuse, accident or neglect.

(c) Defects or damage from improper testing, operation, maintenance, installation, adjustment, or any alteration or modification of any kind.

(d) Breakage or damage to antennas unless caused directly by defects in material or workmanship.

(e) Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.

(f) Products which have had the serial number removed or made illegible.

(g) Defects or damage due to spills of food or liquid.

(h) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to customer normal use.

(i) Products rented on a month- to- month basis.

(j) The portable phone keypad assembly and displays are not covered after the first year.

IV. How To Get Warranty Service:

To receive warranty service, present your equipment to the facility described below, along with your bill of sale or comparable substitute proof of sale or lease bearing the date of purchase, transceiver serial number and place of purchase or installation if applicable.

Warranty service is available by returning Motorola branded Radiotelephone Products to a Motorola Service Center, authorized in writing by a Motorola Area Service Manager to perform warranty work on Motorola PCS Subscriber Radiotelephone products. A Carrier or Distributor branded Radiotelephone Product may be returned to either (a) the specific service shop qualified by Motorola's National Service Center in writing and operated by or affiliated with the PCS Service Provider, or (b) a Motorola Authorized PCS Service Center.

In most cases the service shop which sold your PCS Radiotelephone and accessories will provide warranty service. If you need additional information, contact that shop, the customer service department of your Service Provider, or Motorola at the address at the end of this document. The unit or accessories, together with any detachable parts such as antennas, battery packs, and chargers, must be delivered to a qualified Motorola Service Center, or a Motorola- qualified service shop, transportation and insurance prepaid. When sent or brought to the servicer, the Radiotelephone Product must be accompanied by your name, address, and telephone number, name of Service Provider, and a description of the problem.

V. General Provisions:

This warranty sets forth our responsibilities regarding this product. Repair, replacement or refund of the purchase price at Motorola's option, is your exclusive remedy. This warranty is given in lieu of all other express warranties, implied warranties, including without limitation implied warranties of merchantability and fitness for a particular purpose, are limited to the duration of this limited warranty. Further, as the Service Provider is not controlled by Motorola, no warranty is made as to coverage, availability or grade of service provided by the Service Provider. In no event shall Motorola be liable for damages in excess of the purchase price of the PCS radiotelephone product, for any loss of use, loss of time, inconvenience, commercial damages arising out of the use or inability to use such product, to the full extent such may be disclaimed by law.

VI. Patent And Software Provisions:

Motorola will defend at its own expense, any suit brought against you to the extent that it is based on a claim that the PCS Subscriber Radiotelephone Product parts infringes a United States patent, and Motorola will pay those costs and damages finally awarded against you in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:

(i) that Motorola will be notified promptly in writing by you of any notice of such claim; and

(ii) that Motorola will have sole control of the defense of such suit and all negotiations for its settlement or compromise; and

(iii) should the PCS Radiotelephone, accessory, battery or parts become, or in Motorola's opinion be likely to become the subject of a claim of infringement of a United States patent that you will permit Motorola, at its option and expense, either to procure for you the right to continue using the PCS Radiotelephone or parts or to replace or modify the same so that it becomes non- infringing or to grant you a credit for such PCS Radiotelephone or parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the PCS Subscriber Radiotelephone, accessories, battery or parts as established by Motorola.

Motorola will have no liability to you with respect to any claim of patent infringement which is based upon the combination of the PCS Radiotelephone or parts furnished hereunder with software, apparatus or devices not furnished by Motorola, nor will Motorola have any liability for the use of ancillary equipment or software not furnished by Motorola which is attached to or used in connection with the PCS Radiotelephone. The foregoing states the entire liability of Motorola with respect to infringement of patents by the PCS Radiotelephone, accessories, batteries or any parts thereof.

Laws in the United States and other countries preserve for Motorola certain exclusive rights for copyrighted Motorola software such as the exclusive rights to reproduce in copies and distribute copies of such Motorola software. Motorola software may be copied into, used in and redistributed with only the PCS Subscriber Radiotelephone Product associated with such Motorola software. No other use, including without limitation disassembly, of such Motorola software or exercise of exclusive rights in such Motorola software is permitted.

VII. State Law Rights:

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

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

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