INSTRUCTION MANUAL

The following is a draft copy of the instruction manual.

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.

Modulous.book Page ii Friday, February 25, 2000 4:19 PM

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Safety Information

Important: Read this information before using your wireless handheld phone.

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 handheld wireless phones. Those guidelines are consistent with safety standards previously set by both U.S. and international standards bodies:

- American National Standards Institute (ANSI) IEEE. C95. 1-1992
- National Council on Radiation Protection and Measurement (NCRP). Report 86
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Ministry of Health (Canada), Safety Code 6

Those standards were based on comprehensive and periodic evaluations of the 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 ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards). For additional information concerning exposure to radio frequency signals, see the statement by the FDA at the end of this user guide.

To maintain compliance with FCC RF exposure guidelines, if you wear a handset on your body, use the Motorola-supplied or approved carrying case, holster, or other body-worn accessory. If you do not use a body-worn accessory, ensure the antenna is at least one inch (2.5 centimeters) from your body when transmitting. Use of non-Motorola accessories may violate FCC RF exposure guidelines.

Antenna Care

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

Phone Operation

Normal Operation

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

Tips on Efficient Operation

Observe the following guidelines to operate your phone 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.

Batteries

Caution: 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. Observe the following guidelines when using your phone while driving.

- Give full attention to driving--driving safely is your first responsibility.
- Use hands-free phone 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 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 inches (6") 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 minimize the potential for interference
- should turn the phone OFF immediately if you have any reason to suspect that interference is taking place

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 it is 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

Switch OFF your phone before boarding an aircraft.

Airline regulations prohibit using your phone while in the air. Check and comply with the policy of your airline regarding the use of your phone while the aircraft is on the ground.

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, do not remove your battery when you are 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 (for example, 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 normally would 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.

Overview

Phone Overview

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

Antenna—Provides superior connectability. Does not extend.

Earpiece—Ultra-compact phone speaker.

Accessory Connector Port—Connects to an external power supply and vehicular accessories.

Headset Jack—Connects to an optional headset.

Microphone—Positioned for convenient conversation.

Function Keys

—Turns the phone On and Off.

—Acts as a “shift” key to access secondary functions of other keys.

RCL—Recalls phone numbers from memory.

STO—Stores phone numbers into memory.

CLR—Clears characters from the screen.

END—Ends phone calls.

SND—Places or answers calls.

—Used to scroll through memory entries and menu features. Also used to adjust keypad, earpiece, and ringer volume.

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

Understanding the Guide

Key Presses

In this guide, keys are represented by symbols. A sample sequence of key presses is shown below:

This sequence indicates that you should press the , , , and keys, in sequence, not simultaneously.

Prompts and Messages

When you press a key, your phone displays either a prompt that guides you to the next action or a message confirming that your action is complete. Prompts and messages are represented in this guide in LCD style, for example: Reset Timer.

Short Cuts and Tips

Look in the margins of this guide for short cuts, useful hints, and other ways to improve your phone's performance. These are especially helpful for experienced Motorola Users, who can find many of the same key sequences used with other Motorola models.

Using the Battery

About Your Batteries

Your phone uses Nickel Metal Hydride (NiMH) batteries in either AAAL or AA sizes.

Note: In an emergency, you can use four AA alkaline batteries for 5-10 minutes of talk time.

Battery Talk-Time and Standby-Time

Talk-time is the time you can talk on your phone before the battery is fully discharged. *Standby-time* is the time your phone is on but not used for talking.

The following table shows ranges for battery talk-times and standby times.

Battery	Digital Mode		Analog Mode	
	Talk (up to)	**Standby (up to)**	**Talk (up to)**	**Standby (up to)**
AAAL NiMH (700mAH)	100 min.	100 hrs.	60 min.	16 hrs.
AA NiMH (1200mAH)	180 min.	180 hrs.	100 min.	27 hrs.

Notes:

- Talking on the phone uses more power than leaving it idle. The more power used for talking, the less you'll have for standby-time, and vice-versa.
- All times are approximate and depend on the battery used, network configuration, signal strength, and features selected.
- Talk and standby times are lower in Analog mode. Your phone operates more efficiently in Digital mode.

Storing and Disposing of Batteries

To prolong battery life, do not expose a battery to temperatures below -10°C (14°F) or above 45°C (113°F). Do not leave your phone in your car.

To dispose of batteries, check with your local recycling center for a nearby battery recycler. Never dispose of batteries in a fire.

Caution: To prevent injuries or burns, do not allow metal objects to contact or short-circuit the battery terminals.

Installing and Removing a Battery

Installing a Battery

1. Press down on the tab at the top of the battery cover.

2. Slide the cover back, and remove it from the phone.

3. Insert the top end of the battery into the compartment, and push it against the springs.

   (The battery's black plastic "foot" should be at the other end, facing left.)

4. Fit the other end of the battery into the compartment.

5. Insert the tabs on the underside of the cover into the slots on the edges of the compartment.

6. Lower the cover into place, then slide it forward until it snaps shut.

Removing a Battery

1. Press ⏻ to turn your phone off.
2. Press down on the tab at the top of the battery cover.

3. Slide the cover back, and remove it from the phone.

4. Grip the battery at its bottom end, pull straight up, then remove the battery.

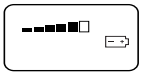
Checking Battery Levels

Battery Level Indicator

To display your phone's battery charge level:

Press FCN 4 BATT GHI.

The following is displayed:



The more segments filled on the fuel gauge, the greater the charge.

Low Battery Warning

When the battery charge is low, the phone signals you in three ways:

- Low Battery is displayed.
- No bar segments are highlighted.
- A short tone plays periodically.

To confirm low battery signals:

Press FCN 4 BATT GHI.

High

Low

Charging Batteries

Your phone's internal charger enables you to use an AC adapter or vehicle power adapter to charge batteries installed in your phone.

Note: Your phone's internal charger is intended only for charging batteries. It does not provide power directly to the phone.

To charge:

1. Plug the AC adapter into the connector on the side of the phone.

or

Plug the vehicle power adapter into the connector at the bottom of the phone.

2. Plug the AC adapter into an electrical outlet.

or

Plug the vehicle power adapter into a vehicle cigarette lighter.

In both cases, you hear a beep, and the battery icon flashes.

Tip:
You can still place and answer calls while using the internal charger, as long as the phones batteries have at least a small charge. Remember that charging takes more time when you are actively using the phone. To place the phone in charger-only mode, press ⏻ *once.*

Battery Charging Tips

To ensure maximum battery life:

- Always use Motorola approved battery chargers.
- When charging, keep the battery at or near room temperature.
- When you don't intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- Do not leave a NiMH battery connected to any charger for longer than 24 hours.

A new NiMH battery can require several full charge/discharge cycles to reach its optimum performance level. After this initial series of charge/discharge cycles, recharge the battery at your convenience.

Quick Change Power Source

The quick change feature enables you to switch power sources during an active call without losing the connection. If you hear a low-battery warning during a call, plug in the Vehicle Power Adapter or the AC adapter.

Charge Times

The following table shows the time required to charge each battery type to a 90% power level:

Battery Type	Charge Time—Internal Charger
NiMH AAAL (700 mAH)	4 hrs.
NiMH AA (1200 mAH)	6 hrs.

When the battery reaches 90%, it slow charges until it is fully charged. It is normal for batteries to become warm during charging.

If the phone is turned on while batteries are charging, charge times will be longer than those listed above.

Using the Phone

Turning the Phone On and Off

1. To turn the phone on, press and hold ⏻ until the display appears and you hear a tone.
2. Press and hold ⏻ again to turn the phone off. `Powering off` will be displayed, and you will hear a tone.

What You Will See

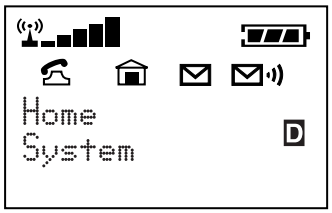
When you turn on your phone, it performs a self-test to let you know it is operational. When the test is completed, the display shows:

- 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

Reading the Indicators



Signal Strength Indicator

High

Low

The Signal Strength Indicator (SSI) indicates the strength of your phone's connection with the local cellular system. A strong signal increases your chances of placing and receiving calls. Low signal strength can occur in a fringe area of the cellular system. Buildings, tunnels, and bad weather can block or interfere with reception.

Digital Indicator

This indicator appears when you are in a digital coverage area.

Analog Indicator

This indicator appears when you are in an analog coverage area.

In Use Indicator

This indicator appears when a call is in progress.

In-Building Indicator

This indicator lights when the phone accesses an In-Building Cellular System or other non-public system.

No Service Message

When you are outside the range of a cellular system, the No Service message indicates that you cannot place or receive calls.

SMS Message Waiting Indicator

The Short Message Service (SMS) Message Waiting Indicator is displayed when the phone receives a message. The symbol flashes when your message storage area is full. (This is an optional, network- and subscription-dependent feature that is not available in all areas.)

Voice Message Waiting Indicator

This indicator is displayed when your Voicemail has received a message. (This is an optional, network- and subscription-dependent feature that is not available in all areas.)

Battery Level Indicator

This indicator shows your battery's charge. The more segments you see, the greater the charge. The phone alerts you to a low charge in three ways:

- No bar segments are highlighted.
- Low Battery is displayed.
- A short tone plays periodically.

High

Low

Standby Mode

To conserve energy, your phone may turn off its lights in standby mode. The display returns the next time you press a key.

Viewing Your Phone Number

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

Placing a Call

To place a call:

1. Press and hold ⏻ until the display lights and you hear an alert.
2. Enter the number you want to call.

   If you make a mistake while entering the number:

   - Press CLR to erase one digit at a time.
   - Press and hold CLR to clear the entire entry.

   You can dial phone numbers with up to 32 digits, but only the last 20 appear in the display. (Press RCL to see the entire number.)
3. Press SND to place the call.

   You will hear a two-tone alert (if keypad tones are turned on) and see `Dialing XXXXXXX`.

Ending a Call

To end a call:

Press END.

Receiving a Call

Your phone must be powered on to receive calls.

To answer a call:

Press SND when the phone rings.

Unanswered Call Indicator

When you cannot take a call, your phone counts your unanswered calls and displays `Missed XX Calls`, where *XX* is the number of missed calls.

Terminating the Ring Indicator

To terminate the ring indicator, press either of the volume keys during the ring cycle.

Switching Between Digital and Analog Modes

To switch from digital to analog mode, or from analog to digital during a call:

Press FCN 2 ABC.

Depending upon availability, your phone selects the TDMA digital system or the analog system.

Notes:

- This feature is not available on all models of this phone.
- Once you switch from digital to analog mode, you can not switch back to digital mode until you turn your phone off and on again.
- When you switch from digital to analog mode, you may still see the digital D indicator while the phone is idle (that is, not in an active call).

Redialing a Number

Automatic Redial

Sometimes you may not be able to complete a call because the cellular system is busy. When this happens, you will hear a fast busy signal.

With Automatic Redial, your phone tries continuously to complete the call for the next four minutes. When it makes a connection, the phone alerts you with rings that are half as long as those for a new incoming call. You can begin talking when the other party answers.

If you hear a fast busy signal:

1. When you see `Redial Call?`, press SND to redial.
2. If the call does not complete after four minutes, press SND to continue the attempt.

   You will see `Redial`.

If you hear an ordinary busy signal:

1. Press END to hang up.
2. Press SND to redial the busy number. You will see Dialing XXXXXXX.

Controlling Volume

Adjusting Volume

Use the scroll buttons (◄►) to adjust earpiece, keypad, and ringer volume. When you press these keys, the phone's speaker demonstrates the current volume level.

To adjust earpiece and keypad volume:

Press ◄► to raise or lower the volume.

To adjust the ringer volume:

1. Press FCN.
2. Press ◄► to raise or lower the ringer volume.

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 MUTE MNO to mute the microphone. You will see Mute.
2. Press FCN 6 MUTE MNO again to resume normal conversation.

Using Phone Memory

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

For easy recall, store related numbers in groups. If you store the numbers you call most in locations 01-09, you can use Turbo Dial® to call them by pressing a single key. (See “Using the Turbo Dial® Function” on page 27 for details.)

You can also store a name with a phone number. Later, you can enter that name to recall the number.

Storing Names and Numbers

How to Store Phone Numbers

1. Enter the phone number you want to store.
2. Press STO to begin storing. The phone displays `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.

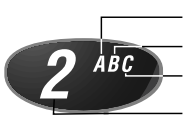
   or

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

   You will see `Alpha Or Sto`.
4. Enter a name to identify the phone number. (See the following section for details on entering names.)
5. Press STO when you finish entering the name. Your phone confirms your entry by displaying the information you stored.

How to Enter Letters and Numbers

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



How to Enter a Name

Tip:
Press ◀▶ first, to toggle between upper and lower case letters.

1. To enter a letter, press the appropriate key as many times as needed. Enter punctuation by pressing 1 MENU as many times as indicated by the chart below. Pressing 1 MENU a single time produces a single space.

2	3	4	5	6	7	8	9	10
1	/	'	,	?	$	.	&	!

   The cursor advances automatically to the next space after you enter a letter or after three seconds of inactivity. Press # to advance the cursor to the next space.

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

3. Press STO when you finish entering the name.

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

Recalling by Name

You can recall a stored name alphabetically and immediately call the corresponding number:

1. Press FCN 3 NAME DEF to enter your name directory.
2. Press ◄► to scroll to the name you want.

   or

   Enter the first letter of the name you want to recall. The phone displays the first name in the phone book that begins with that letter. If the phone book has no entries beginning with that letter, No X's is displayed (where *X* is the letter you entered).

   When your phone finds the name, it displays it along with its memory location and corresponding phone number.
3. Press SND to call the number.

Recalling by Memory Location

You can recall stored names and numbers by their memory location:

1. Press RCL.
2. Enter the two-digit memory location of the phone number you want.
3. Press SND to call the number you selected.

Clearing a Phone Memory Entry

Clearing an Entry by Name

1. Recall by name the entry that you want to erase. (See “Recalling by Name” on page 25.)
2. Press CLR to clear the entry. You will see `Clear Entry?`.
3. Press STO 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 number the entry that you want to erase. (See “Recalling by Memory Location” on page 25.)
2. Press CLR to clear the display.
3. Press STO and the location you want to clear. You will see `XX Full Change?`
4. Press STO to confirm that you want to erase the entry.

Shortcuts for Recalling Phone Book Entries

Using Speed Dial

If you know the memory location of the number you want to call, use Speed Dial to save key presses:

1. Enter the two-digit memory location (01-99).
2. Press SND to place the call.

Using the Turbo Dial® Function

The Turbo Dial® function enables you to dial any number stored in locations 01-09 by pushing a single button:

> Press and hold a number 1 MENU through 9 WXYZ, and your call is placed. You will hear a two-tone alert afterwards.

The Priority Call feature provides quick access to any number stored in location 01. See “Activating Priority Calling” on page 55.

Making Notes on the Scratchpad

Your phone has a built-in scratchpad for making quick notes. The scratchpad “remembers” the last phone number shown on the display.

Entering a Number in the Scratchpad

During an active call, if the other party gives you another number to call, you can enter the number on the scratchpad and dial that number later.

1. Enter the number on the keypad. (The person on the line can hear tones as you dial.)
2. Press END to end the current call.
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 on the keypad. (The person on the line can hear tones as you dial.)
2. Press STO and continue storing with step 3 in “Storing Names and Numbers” on page 23.

Using the Menu System

Your Motorola 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 chapter you will learn:

- 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.

Recent Calls

Phone Book

Timers

Tone Control

Lock Secure

Phone Options

Navigating the Menu

Use these keys to navigate the menu system:

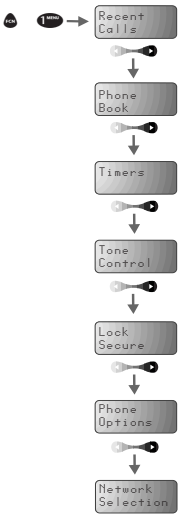
To enter the menu system:	Press FCN, then press 1 MENU. (“menu” is printed on the 1 MENU key as a reminder.)
To scroll to the desired menu selection:	Press ◀ ▶.
To select a menu item:	Press STO.
To “unselect” a menu item:	Press CLR.
To exit the menu:	Press END.

Road Maps

To help you navigate through the phone’s menus, each chapter begins with an easy-to-follow visual “road map.” Simply press the key shown, and observe the message that appears in the display. For example, try this:

1. Press FCN 1 MENU.
2. Press ◀ ▶ to scroll through the menu’s top level, shown at the right of this page.
3. Press END to exit the menu.

Detailed instructions within each chapter describe how each feature works.



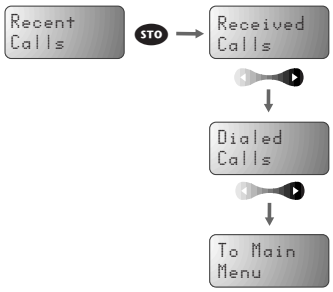
Managing Recent Calls

Road Map for Recent Calls

To enter the menu system:

Press ACN 1 MENU.

Start:



About Recent Calls

The Recent Calls menu enables you to review calls that you have received or dialed. Here are some tips and information about reviewing recent calls:

- Your phone can store the telephone numbers and names of the last twenty incoming calls.
- If the caller's phone number matches a number stored in the phone's memory, the phone automatically displays the name associated with that number.
- If you subscribe to call waiting and receive a call during an active call:
  - You hear a call waiting tone.
  - The caller's name and number appear on the display.

The caller's name and number are stored automatically. You can view them after ending the call. (See "Reviewing Received Calls" on page 32.)

- Caller Line ID enables you to view the caller's name and number while the phone is ringing. Caller Line ID is optional and is not available in all markets. Contact your Service Provider for availability information.
- If the caller has restricted the transmission of his/her phone number, your phone displays `Anonymous`. If the Calling Number ID information is not available to the cellular network, your phone displays `Not Available`.
- You can store any number contained in your Caller Line ID memory to a memory location in the same way you save any phone number. When the correct number is displayed, press STO and a memory location, or STO ◄►, to load automatically. See "Storing Names and Numbers" on page 35 for more information on storing phone numbers.
- When you select Received Calls, the number of received calls is displayed. However, if a call is private or has no Caller Line ID number, then its actual phone number is not displayed.

Getting to Recent Calls

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. When you see **Recent Calls**, **press** STO to select.
3. **Press** ◄► to scroll to the following features.

Reviewing Received Calls

1. Follow the steps in "Getting to Recent Calls" above to scroll to `Received Calls`. Your phone shows the total number of received calls stored. If there are no numbers in the Caller Line ID list, you will see `20`.
2. Press STO to enter your Caller Line ID list of received calls.
3. Press ◄► to scroll through the list.

   Your phone shows the order in which the call was received, along with the phone number and name of the calling party (if available).

   The received call list can range from `01` (the most recent previous call) to `20` (the oldest call).
4. Press SND to dial the displayed number.

Reviewing Dialed Calls

Shortcut:
Press RCL 0 OPR 0 OPR to enter the dialed calls list.

1. Follow the steps in "Getting to Recent Calls" on page 32 to scroll to `Dialed Calls`.

   Your phone shows the total number of dialed calls that are stored, up to the last twenty numbers dialed. If there are no numbers in the Caller Line ID list, you will see `20`.
2. Press STO to enter your dialed calls list.

3. Press ◀▶ to scroll through the list. The list can range from 01 (the most recent dialed call) to 20 (the oldest dialed call).

   The display shows:

   - the order of the number of the previously dialed phone call, with the phone number and name of the party called
   - the name, if the number dialed matches a phone book entry

4. Press SND to dial the displayed number.

Clearing Caller Line ID

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

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

   or

   Press END to leave your Caller Line ID memory intact.

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

1. Press CLR when a Caller Line ID name and number is displayed. You will see Clear Entry?.
2. Press CLR to clear.

   or

   Press END to leave your Caller Line ID memory intact.

Tip: *To erase **all** entries, press and hold CLR. To erase a **single** entry, simply press CLR.*

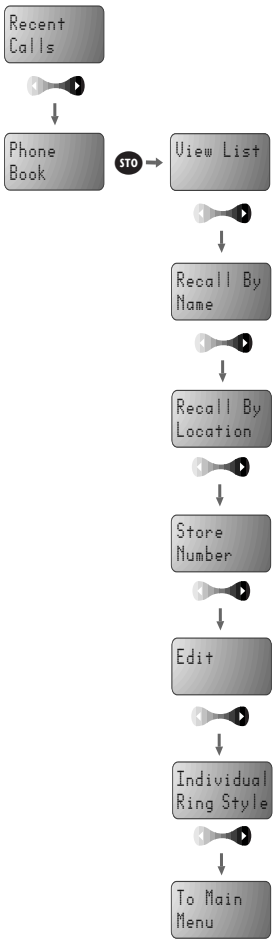
Managing the Phone Book

Road Map for Phone Book

To enter the menu system:

Press ACN 1 MENU.

Start:



Getting to Phone Book

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◀▶ to scroll to **Phone Book,** and **press** STO to select.
3. **Press** ◀▶ to scroll to the following features, and **press** STO to select.

Storing Names and Numbers

To store names and numbers into the Phone Book.

1. Follow "Getting to Phone Book" above to 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 24.)
3. Press STO when you finish entering the number. You will see `Location —`.
4. Press * to store the number in the next available location.

   or

   Enter the first digit of the memory location, then press * to store the number in the first available location beginning with that digit.

   or

   Enter the two-digit memory location where you want the phone number stored.
5. Enter a name to identify the phone number, or skip to step 6. (See "How to Enter a Name" on page 24 for details on entering names.)
6. Press STO when you finish entering the name. Your phone confirms your entry by displaying the location, number, and name you stored.

7. Continue with step 8 below, or return to step 2 above to store more numbers.
8. Press END to exit the menu.

Storing and Placing Numbers for Pause Dialing

Entering a Pause in a Number

When you call automated systems, you are typically prompted by a recorded message to enter PIN numbers, Voice Mail numbers, etc.

You can store these numbers, along with special "pause" characters that tell your phone to pause before sending additional numbers.

1. Follow "Getting to Phone Book" on page 35 to 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 STO 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 character, then enter the next group of numbers by repeating steps 3 through 5 as often as necessary.

   You can store up to 32 digits, including pauses.
8. Press STO 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 Sto`.

10. Enter a name for your sequence.

    (See “How to Enter a Name” on page 24 for details on entering names.)

11. Press STO when you finish entering the name.

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

Placing a Call with Pause Dialing

To use the stored sequence:

1. Recall the stored number that includes the pause(s).
2. Press SND to place the call.
3. When prompted, press SND to send the next set of stored numbers.
4. Press SND as many times as necessary to send all the numbers.

Storing and Placing Numbers for Calling Card Information

Storing Calling Card Information

You can store a calling card number sequence, with pause characters to separate groups of numbers. You can insert a Number Character in the sequence to save a place for the number to be called.

See “Using Lock/Security Features” on page 52 for information on protecting calling card information.

1. Follow the steps in “Getting to Phone Book” on page 35 to select `Store Number`. You will see `Enter Number`.
2. Enter the number you call to access the calling card system. (Skip this step if you only dial 0.)
3. Press FCN SND. You will see `Insert Wait o`.
4. Press STO 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 6.)
6. Press FCN SND.
7. Press ◄ ► to scroll until you see `Insert Number ´N`.
8. Press STO to insert the ´N Character.

   This special character saves a place for the number you will call.
9. Press FCN SND.
10. Press STO to insert another pause character, as in steps 3 and 4.
11. Enter your calling card PIN number.
12. Press STO to store the calling card sequence. You will see `Location --`.

13. Enter the two-digit memory location where you want to store the sequence. You will see Alpha Or Sto.
14. Enter a name for the sequence. (See “How to Enter a Name” on page 24.)
15. Press STO after 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 stored calling card sequence. (See “Recalling an Entry by Name”” and “Recalling an Entry by Location” on page 42.)
2. Press SND before entering the number. You will see Enter Number.
3. Enter the phone number (including area code) manually, by location, or by recall.
4. Press SND. Your phone dials the number to access your long distance provider.
5. When prompted, press SND to send the next group of numbers. 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.

Editing a Memory Location

To edit or erase Phone Book entries:

1. Follow the steps in “Getting to Phone Book” on page 35 to select Edit.
2. Recall an entry. (See “Recalling an Entry by Name” and “Recalling an Entry by Location” on page 42.)
3. Press STO to begin editing the number.

   The name is displayed briefly, then the number.
4. Press CLR to erase one digit at a time. (Press and hold CLR to erase the entire number).
5. Enter your changes to the phone number.
6. Press STO when you finish editing the number.

   The number’s memory location is displayed.
7. Press CLR to erase the memory location, then enter a new two-digit location.

   or

   Press STO to keep the 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 24.)

   To leave the name unchanged, skip to step 9.
9. Press STO when you finish editing the name. The display shows the new information.

10. Press STO to save your changes. The phone confirms your entry by displaying the location, number, and name you stored.

    or

    Press CLR to leave the information unchanged.

11. When you see Location ——, enter a new two-digit memory location to avoid overwriting the information in the current location.

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

Viewing All Entries in Alphabetical Order

To view your phone book entries in alphabetical order:

1. Follow “Getting to Phone Book” on page 35 to select View List. You will see the first listing in your phone book, beginning alphabetically.

2. Press ◀▶ to scroll backward or forward through the list.

3. To call a number, press SND when your phone displays the name that identifies the number.

Recalling an Entry by Name

To recall a stored entry by name, using the Phone Book menu:

1. Follow “Getting to Phone Book” on page 35 to 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 stored name that begins with that letter. If no entry for that letter is found, `No X's` is displayed (where *X* is the letter you entered).
3. Press ◄► to scroll to the name you want.
4. Press SND to call the number you selected.

Recalling an Entry by Location

Your phone stores names and numbers in memory locations numbered 01-99. To recall stored entries by memory location, using the Phone Book menu:

1. Follow “Getting to Phone Book” on page 35 to select `Recall By Location`. You will see `Location —`.
2. Enter the two-digit memory location of the number you want.
3. Press SND to call the number you selected.

Assigning an Individual Ring Style to a Phone Book Entry

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.

1. Follow the steps in "Getting to Phone Book" on page 35 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 the desired entry.
3. When you reach the phone number you want, select it by pressing STO. The display will show `Select 0-9, 0=OFF`.
4. Press 0 OPR to assign the default ring style to the number.

   or

   Scroll to the ring style you want to assign to the phone number.
5. Press STO 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.

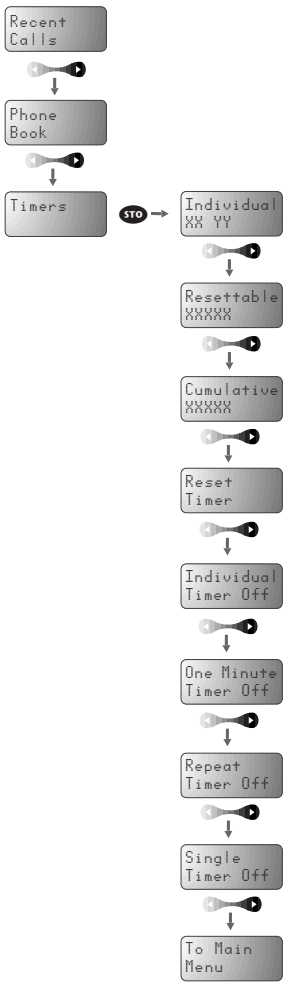
Timing Your Calls

Road Map for Call Timers

To enter the menu system:

Press ACN 1 MENU.

Start:



Getting to Call Timers

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◄► to scroll to **Timers**, and **press** STO to select.
3. **Press** ◄► to scroll to the following features, and **press** STO to select.

Viewing the Individual Call Timer

You can view the air-time of the most recent call or the call in progress (in minutes and seconds) at any time. The Individual Call Timer resets when you place the next call and when you turn the phone off.

1. Follow the steps in "Getting to Call Timers" above to 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.

Shortcut: Press RCL #, # for a quick look at this timer.

You can also have the timer display while calls are in progress. See "Displaying the Individual Call Timer Automatically" on page 46.

Viewing the Resettable Call Timer

Use this feature to view how much air time you have accumulated at any time.

1. Follow the steps in "Getting to Call Timers" above to 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.

Shortcut: Press RCL #, #, # for a quick look at this timer.

To reset the timer, follow the instructions in "Resetting the Timer" on page 46.

Shortcut: Press RCL #, #, #, # for a quick look at this timer.

Viewing the Cumulative Timer

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

1. Follow the steps in "Getting to Call Timers" on page 45 to 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.

Resetting the Timer

By resetting this timer at the beginning of each billing cycle, you can keep a running tab of your monthly usage. After you reset the timer, it continues to keep track of your air time (in minutes) until you reset it again.

1. Follow the steps in "Getting to Call Timers" on page 45 to select `Individual XX YY`.
2. Press ◄► to scroll to `Reset Timer`.
3. Press STO to reset the timer.
4. Press END to exit, or scroll to other features.

Note: The shortcuts do not work if the Reset Timer is already set at zero.

Displaying the Individual Call Timer Automatically

Tip: *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. Follow the steps in "Getting to Call Timers" on page 45 to select `Individual Timer`.

2. To have the Individual Timer automatically displayed, press STO. You will see Individual Timer On.

   or

   To turn off automatic display of the Individual Timer, press CLR. You will see Individual Timer Off.

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

Setting the One-Minute Audible Timer

Use this feature to sound a beep 10 seconds before the end of each minute during a call. The party on the other end does not hear the beeps.

1. Follow "Getting to Call Timers" on page 45 to select One Minute Timer. You will see One Minute Timer Off or One Minute Timer On.
2. To activate the One-Minute Timer, press STO. You will see One Minute Timer On.

   or

   To turn off the One-Minute Timer, press CLR. You will see One Minute Timer Off.

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

Setting the Repeating Audible Timer

Use this feature to sound a beep during calls at intervals of 11-999 seconds. The beep sounds 10 seconds before each interval but can't be heard by the other party.

1. Follow the steps in "Getting to Call Timers" on page 45 to select Repeat Timer.

2. To activate the Repeat Timer, press STO.

   or

   To turn off the Repeat Timer, press CLR. You will see Repeat Timer Off.

3. If you turned the timer off, skip to step 5.

   or

   Enter the interval (in seconds) before the beep.

4. Press STO. The phone shows Set At YYY Secs to confirm the setting.

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

Setting the Single Timer

Use the Single Timer to sound a beep during calls at a specified interval—from 11-999 seconds. The beep sounds 10 seconds before the interval but can't be heard by the other party.

1. Follow the steps in "Getting to Call Timers" on page 45 to select Single Timer.

2. To activate the Single Timer, press STO.

   or

   To turn off the Single Timer, press CLR. You will see Single Timer Off.

3. If you turned the timer off, skip to step 5.

   or

   If you turned the timer on, enter the interval (in seconds) before the beep.

4. Press STO. The phone shows Set At YYY Secs to confirm the setting.

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

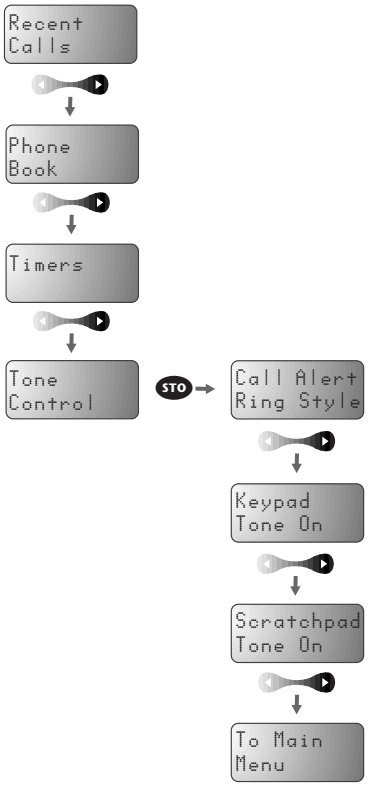
Adjusting Tone Controls

Road Map for Tone Controls

To enter the menu system:

Press FCN 1 MENU.

Start:



Getting to Tone Controls

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◀▶ to scroll to **Tone Control**, and **press** STO to select.
3. **Press** ◀▶ to scroll to the following features, and **press** STO to select.

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. Follow the steps in "Getting to Tone Controls" on page 50 to select `Call Alert Ring Style`. You will hear the currently-selected ring style.
2. Press 1 MENU through 9 WXYZ to hear the different ring styles, or scroll through the ring styles. `Ring Style 1` is the default setting.
3. Press STO 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 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.

Note: The other party still hears tones.

1. Follow the steps in "Getting to Tone Controls" on page 50 to select `Keypad Tone`. You will see `Keypad Tone On` or `Keypad Tone Off`.

2. To activate Keypad Tones, press STO. You will see Keypad Tone On.

   or

   To turn off Keypad Tones, press CLR. You will see 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. Follow the steps in "Getting to Tone Controls" on page 50 to select Scratchpad Tone. You will see Scratchpad Tone On or Scratchpad Tone Off.

2. To activate Scratchpad Tones, press STO. You will see Scratchpad Tone On.

   or

   To turn off Scratchpad Tones, press CLR. You will see Scratchpad Tone Off.

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

Note: 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.

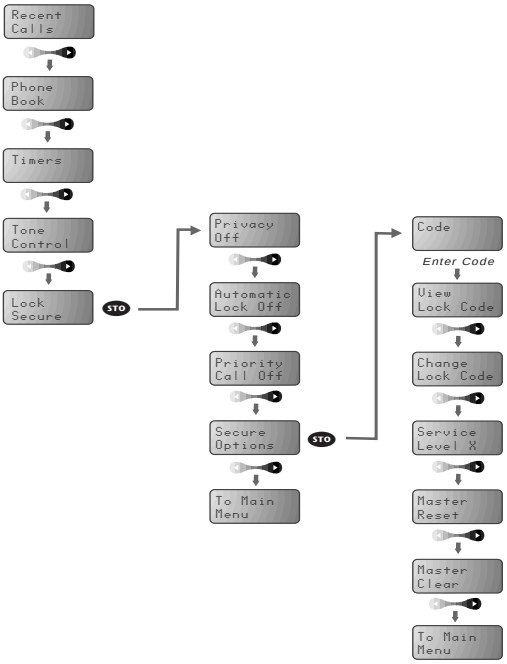
Using Lock/Security Features

Road Map for Lock Security

To enter the menu system:

Press ACN 1 MENU.

Start:



Getting to Lock Security

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◄► to scroll to **Lock Secure**, and **press** STO to select.
3. **Press** ◄► to scroll to the following features, and **press** STO to select.

Activating Voice Privacy

When you activate Voice Privacy, you request your cellular system to search for a Voice Privacy channel for 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 beeps alert you that the call is no longer private.

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

Note: 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. Follow the steps in "Getting to Lock Security" above to select `Voice Privacy`. You will see `Privacy Off` or `Privacy Preferred`.
2. To activate Voice Privacy, press STO. You will see `Privacy Preferred`.

   or

   To turn off Voice Privacy, press CLR. You will see `Privacy Off`.
3. Press END to exit, or scroll to other features.

Locking/Unlocking Your Phone

Locking Your Phone Automatically

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

1. Follow the steps in "Getting to Lock Security" on page 53 to select `Automatic Lock`. You will see `Automatic Lock Off` or `Automatic Lock On`.
2. To activate Automatic Lock, press STO. You will see `Automatic Lock On`.

   or

   To turn off Automatic Lock, press CLR. You will see `Automatic Lock Off`.
3. Press END to exit, or scroll to other features.

Locking Your Phone Manually

Tip: *"LOCK" is printed on the 5 LOCK JKL key, as a reminder.*

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 LOCK JKL for at least one full second.You will see `Lock?`.
3. Press STO 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 56 and "Changing the Lock Code" on page 56 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 SND to receive the call.

Activating Priority Calling

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 to contact in case of emergency.

Note: Some cellular systems have their own emergency numbers and deny access to other emergency numbers. 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. Follow the steps in "Getting to Lock Security" on page 53 to select `Priority Call`. You will see `Priority Call Off` or `Priority Call On`.
2. To activate Priority Call, press STO. You will see `Priority Call On`.

   or

   To turn off Priority Call, press CLR. You will see `Priority Call Off`.
3. Press END to exit, or scroll to other features.

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

Getting to Security Options

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◄► to scroll to **Lock Secure**, and **press** STO to select.
3. **Press** ◄► to scroll to the **Secure Options** submenu, and **press** STO to select.
4. **Enter** your **six-digit security code**, **scroll** to the following features, and **press** STO to select.

Viewing and Changing the Lock Code

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

Viewing the Lock Code

To display the active three-digit lock code:

1. Follow the steps in "Getting to Security Options" above to select `View Lock Code`.
2. Press STO to display your three-digit lock code. The code appears for a few seconds.
3. Press END to exit, or scroll to other features.

Changing the Lock Code

To change your three-digit lock code:

1. Follow the steps in "Getting to Security Options" above to select `Change Lock Code`. You will see `Enter Code ___`.
2. Enter the new three-digit code. You will see `Changed To XXX`.
3. Press END to exit, or scroll to other features.

Note: If you enter 911 or the first three digits of an emergency number, you will see `Code Invalid`, and your entry **will not** be accepted. You will return to step 1 above.

Restricting Call Placement

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

Selecting a Service Level

1. Follow the steps in "Getting to Security Options" on page 56 to select `Service Level`.

   The phone displays your current service level. Refer to the chart on the next page.

2. Press ◄► to scroll through the service level settings, and press STO to select the level you want.

   If you select Level 7, the phone prompts you for the range of memory locations to remain active. Enter the range of memory locations from which calls will be allowed. The phone confirms the range and shows `1-XX Allowed`.

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

Service Level Settings

Each service level offers a different combination of access privileges and restriction.

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

Level	Privileges & Restrictions	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
6	• Calls can be placed from the keypad and from memory. • No edit or memory storage to memory locations 1-10 • Memory cannot be changed.	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 1-10	8 Hide Turbo

Resetting All Options

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

Note: Once you select this feature, the reset process cannot be canceled or reversed.

1. Follow the steps in "Getting to Security Options" on page 56 to select `Master Reset`.
2. To reset all phone options to their factory settings, press STO. You will see `Standard Setting`.

   or

   To exit the menu (if you do not want to reset your phone's options), press END.
3. Press END to exit, or scroll to other features.

Clearing All Stored Information

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

Note: Once you select this feature, the process cannot be canceled or reversed.

1. Follow the steps in "Getting to Security Options" on page 56 to select `Master Clear`.
2. Press STO to clear memory and reset all phone options 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.
3. Press END to exit, or scroll to other features.

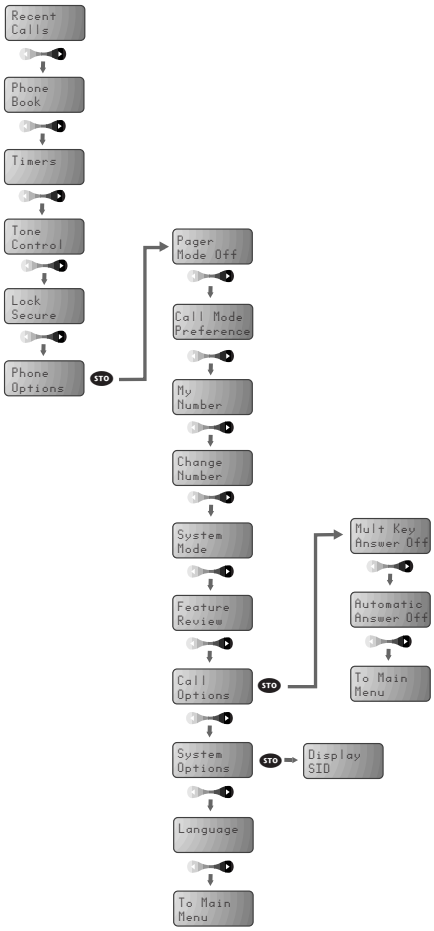
Customizing Phone Options

Road Map for Phone Options

To enter the menu system:

Press ACN 1 MENU.

Start:



Getting to Phone Options

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◄► to scroll to **Phone Options**, and **press** STO to select.
3. **Press** ◄► to scroll to the following features.

Activating Pager Mode

When Pager Mode is activated, the phone simulates a pager:

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

Pager Mode is turned off by default.

To change the Pager Mode setting:

1. Follow “Getting to Phone Options” above to scroll to `Pager Mode ON/OFF`. The phone shows the current Pager Mode setting.
2. To activate Pager Mode, press STO.

   or

   To turn off Pager Mode, press CLR.
3. Press END to exit, or scroll to other features.

Selecting Preferred Call Mode

You can assign either a digital or analog channel to your phone, based on system channel availability.

Tip: *If you select this feature during a call, your selection becomes effective with the next call. Press FCN 2 ABC to switch between digital and analog modes.*

1. Follow "Getting to Phone Options" on page 61 to scroll to `Call Mode Preference`, and press STO to select.
2. Press ◄► to toggle among `Digital Voice Pref`, `Analog Voice Only`, and `Digital Voice Only`.
3. Press STO to make your selection.
4. Press END to exit, or scroll to other features.

Notes:

- This is a network- and subscription-dependent feature that is not available in all areas. Contact your Service Provider for more information.
- When powered on, your phone searches for a digital channel. If no digital channel is available, the phone selects an analog channel.
- The `Analog Voice Only` setting remains active until you change to another setting or until you turn the phone off and back on.
- If you select `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

Use this feature to view the phone's currently active phone number. If you have more than one number, you can use the Change Number feature to change the active number. (See "Switching Between Numbers" on page 63.)

1. Follow "Getting to Phone Options" on page 61 to scroll to My Number.
2. Press STO.

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

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

Switching Between Numbers

Your phone can operate on two different home systems. If you travel often, you can have your phone programmed with two numbers to reduce roaming. This feature enables you to change the 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 can be active at a time. Calls are placed and received only by the currently active number.

When you turn your phone On, you will see a message that indicates which phone number and home system are currently active.

To switch your phone number:

1. Follow "Getting to Phone Options" on page 61 to scroll to Change Number.
2. Press STO.

   The active phone number is displayed.
3. Press # to switch to the other number.
4. Press STO to confirm the new setting.
5. Press END to exit, or scroll to other features.

Selecting a Cellular System

Shortcut:
Press RCL *, and continue with step 3.

Use the System Mode feature to set your preference for the type of cellular system your phone will access.

Notes:

- This is an optional network- and subscription-dependent feature that is not available in all areas.
- Your Service Provider configures this feature when assigning a number to your phone.

To select your preferred system mode:

1. Follow "Getting to Phone Options" on page 61 to scroll to System Mode.
2. Press STO.
3. Press ◄► to scroll through system mode settings:

Mode & Description	Display
Standard—Phone first seeks a home system, then a non-home system	• Std AB—Home is non-wireline (type A). • Std BA—Home is wireline (type B).
Reverse—Phone first seeks a non-home system, then a home system. (May be useful in fringe areas or certain roaming situations).	• Scan BA—Home is non-wireline (type A). • Scan AB—Home is wireline (type B).
Home Only—Phone will not operate outside its home system.	Home Only
Scan A—Phone will operate only within nonwireline (type A) systems.	Scan A
Scan B—Phone will operate only within wireline (type B) systems.	Scan B

Mode & Description	Display
I-Scan—(Intelligent scanning) Phone will automatically select best channel for preferred coverage.	I-Scan

4. Press STO to select the system mode setting you want.
5. 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.

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

1. Follow "Getting to Phone Options" on page 61 to select Feature Review.
2. Press ◄► to scroll through features you changed.

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

Getting to Call Options

1. **Press** FCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◄► to scroll to **Phone Options**, and press STO to select.
3. **Press** ◄► to scroll to the **Call Options** submenu, and **press** STO to select.
4. **Press** ◄► to scroll to the following features.

Activating Multiple Key Answer

Activating this feature enables you to answer calls by pressing any key on the upper keypad 1 MENU—9 WXYZ or ◄►.

1. Follow "Getting to Call Options" above to scroll to `Mult Key Answer`.

   You will see `Mult Key Answer On` or `Mult Key Answer Off`.

2. To activate Multiple Key Answer, press STO. You will see `Mult Key Answer On`.

   or

   To turn off Multiple Key Answer, press CLR. You will see `Mult Key Answer Off`.

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

Activating Automatic Answer

Turn on the Automatic Answer feature to have your phone automatically answer incoming calls after two rings.

1. Follow "Getting to Call Options" on page 66 to scroll to `Automatic Answer`. You will see `Automatic Answer On` or `Automatic Answer Off`.
2. To activate Automatic Answer, press STO. You will see `Automatic Answer On`.

   or

   To turn off Automatic Answer, press CLR. You will see `Automatic Answer Off`.
3. Press END to exit, or scroll to other features.

Tip: *If the ringer is off, the phone answers without ringing.*

Getting to Phone Options

1. **Press** MCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◄► to scroll to **Phone Options**, and **press** STO to select.
3. **Press** ◄► to scroll to the following features, and **press** STO to select.

Displaying System Identification

This feature shows the System ID for the cellular system your phone is currently accessing.

1. Follow "Getting to Phone Options" above to enter the `System Options` sub-menu. You will see `Display SID`.
2. Press STO to view the System ID number:
   - even number— wireline system
   - odd number—non-wireline system.
3. After six seconds, the phone returns to step 1.
4. Press END to exit, or scroll to other features.

Selecting a Language

Use this feature to select the language in which your phone displays prompts and messages.

1. Follow "Getting to Phone Options" above to select the `Language` sub-menu.
2. Press ◄► to scroll through the languages.
3. Press STO to select the language you want.
4. Press END to exit, or scroll to other features.

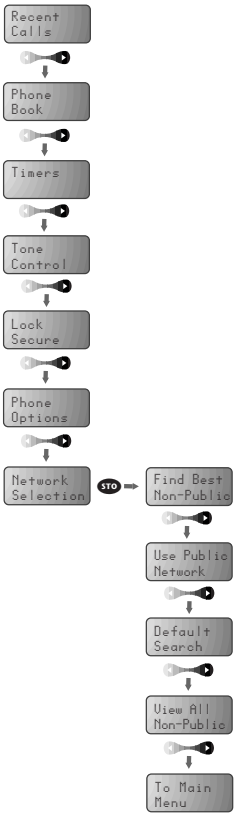
Selecting a Network

Road Map for Network Selection

To enter the menu system:

Press FCN 1 MENU.

Start:



Getting to Network Selection

1. **Press** MCN, then **press** 1 MENU to enter the menu system.
2. **Press** ◀▶ to scroll to **Network Selection**, and **press** STO to select.
3. **Press** ◀▶ to scroll to the following features.

Selecting a Non-Public Network

To select a non-public network:

1. Follow "Getting to Network Selection" above to scroll to `Find Best Non-Public`, and press STO to activate a search.
2. Follow the appropriate instructions below:

If You See This Message:	Do the Following:
`Search Done:` [*network ID*]	• If you want to search for the next best network, press CLR. When you see the desired network, go on to step 3. • To cancel the search and exit the menu, press END.
`Search All Bands?`	• If you want to continue searching for networks in another band, press STO. When you see the desired network, go on to step 3. • To cancel the search and exit the menu, press CLR.
`Not Available`	Press END to exit, and retry the search later.

3. Press STO to register with the displayed network.

   If registration is successful, your phone displays a confirmation message from the network.

Note: The phone is registered with the selected network until you place or receive a phone call or until you turn the phone on and off.

If registration is not successful, your phone displays `Not Available`. (Registration can fail if you travel outside the network range after you locate the network but before you attempt to register.)

Selecting a Public Network

To search for and select a public network:

Follow “Getting to Network Selection” on page 70 to scroll to `Use Public Network`, and press STO to activate a search.

- If the phone finds a public network, it attempts to register. When registration is successful, your phone displays a confirmation message.

Note: The phone is registered with the selected network until you place or receive a phone call or until you turn the phone on and off.

- If the phone does not find a public network, it displays `Public Not Found`.

  Press END to exit, or scroll to other features.

To cancel a search, press CLR or END.

Specifying a Default Search

To reset the phone to use the default network search (rather than forcing the selection of a public or non-public network):

Follow “Getting to Network Selection” on page 70 to scroll to `Default Search`, and press STO to select it.

Viewing All Non-Public Networks

You can list up to fifteen non-public networks that your phone has located in previous searches.

To list non-public networks:

1. Follow “Getting to Network Selection” on page 70 to scroll to `View All Non-Public`, and press STO to select it.

   Your phone displays the first network in the list.

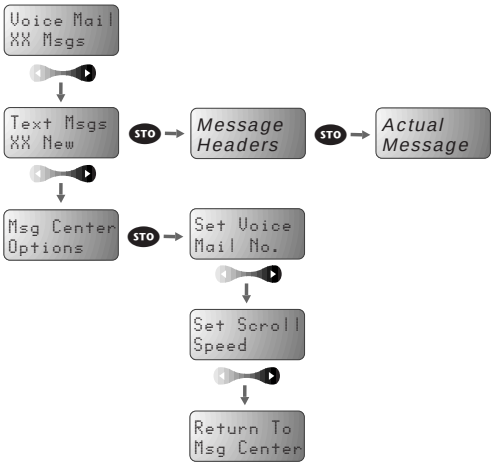
2. Press ◄► to scroll through the entire list.

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

Using Voice Mail and Text Messages

Road Map for Message Center

Start:



Getting to Voice Mail

1. **Press** ✉ to enter the message center.
2. **Press** ◄► to scroll to **Voice Mail.**

Voice Mail Alerts

This feature alerts you whenever a message is sent to your voice mail number and provides 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, once for a regular message or three times for an urgent message.

Dialing Voice Mail

You can retrieve voice mail messages in two ways.

When You Receive a Voice Mail Alert

When you receive a voice mail alert and `Voice Mail XX Msgs` appears, press SND to dial your voice mail number.

Your phone automatically dials the access number and displays `Dialing XXXX` (where `XXXX` is the access number).

From the Message Center

Follow “Getting to Message Center Options” above, and press SND to dial your voice mail number.

Your phone automatically dials the access number and displays `Dialing XXXX` (where `XXXX` is the access number).

Getting to Text Messages

1. **Press** to enter the message center.
2. **Press** to scroll to **Text Msgs.**

Reading Text Messages

The Short Message Service (SMS) enables you to receive alphanumeric messages on your phone, just like a pager. Contact your Service Provider about the availability of SMS in your area.

SMS enables your phone to save up to 30 short messages, each up to 80 characters, or five full-length 239-character messages.

When received, the newest message replaces the oldest. You can store Call Back messages and numbers for later review.

How the Phone Sends Message Alerts

New Message Alerts

When your phone receives a new digital message, it alerts you in one of two ways:

- The phone beeps three times and displays `Message Received`, along with the message icon .

  or

- The phone beeps five times and displays `Urgent Msg Received` or `EMERGENCY MSG RECVD`, along with the message icon .

Short Message Indicators

If a sender marks a message “Emergency” or “Urgent,” the display shows `Call Home Urgent` or `Call Home Emergency`. The message number appears in the upper right of the display.

Selecting and Reading Short Messages

1. Follow “Getting to Text Messages” on page 75.

   - If you have messages, you see `Text Msgs XX New`, where *XX* is the number of unread messages.

     The total number of stored messages appears near the top of the display.

   - If you don’t have messages, you see `Text Msgs Empty`.

     `00` appears near the top of the display.

2. Press STO or ✉ to view the message headers.

   If the message center is full, `Msg Memory Full` appears, followed by the message headers.

3. Press ◄► to scroll through message headers.

   The newest message appears at the top of the list, and the oldest at the bottom. Each header includes:

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

4. Press STO to select and view a message. The time and date stamp appears, followed by the message text, beginning on the top line.

   Press STO to halt the display of the message text. Press STO again to restart it.

5. After reading a message:

   - Return to the list of message headers by pressing ◄►.

     or

   - Call back a number embedded in the message. (See “Initiating a Call Back” on page 77.)

     or

   - Lock or unlock the message. (See “Locking and Unlocking a Message” on page 78.)

     or

   - Clear the message. (See “Clearing Messages” on page 78.)

6. Press END 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. Initiate a Call Back by pressing and holding STO, or by pressing SND, 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 STO or SND to dial the number shown.

   or

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

Note: 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 it is unlocked.

Press FCN 5 LOCK JKL to toggle the current message between locked and unlocked.

The message `Msg Locked` indicates that a message is locked.

Note: If message memory is full and a new message is received, your phone deletes any unlocked messages that have been read.

Clearing Messages

Clearing the Current Message

1. When the message you want to erase is on the display, press CLR.

   You will see `Clear Message?`. The message number will appear near the top of the display.

2. Press STO 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.

Note: You must unlock a locked message before you can clear it. For more information, see “Locking and Unlocking a Message” on page 78.

Clearing All Messages

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

1. Press and hold CLR when you are in the message center.

   You will see `Clear All?`.

2. Press STO to confirm that you want to clear all messages.

   or

   Press END if you decide not to clear all messages. You return 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.

Note: You must unlock any locked messages before they can be cleared. For more information, see “Locking and Unlocking a Message” on page 78.

Getting to Message Center Options

1. **Press** ✉ to enter the message center.
2. **Press** ◀▶ to scroll to **Message Center Options**, and **press** STO to select**.**
3. **Press** ◀▶ to scroll to the following features, and **press** STO to select.

Editing the Voice Mail Number

To store your voice mail access number:

1. Follow “Getting to Message Center Options” above to select `Set Voice Mail No`.
2. Enter your voice mail number. The digits appear as you enter them.
3. Press STO.

   A message confirms that your number has been saved.

   Note: If you subscribe to a system that provides a shortcut number for voice mail, enter the complete number—not the shortcut number.
4. Press END to exit, or scroll to other features.

Setting the Scrolling Speed

To adjust the scrolling speed of incoming messages:

1. Follow “Getting to Message Center Options” on page 80 to select `Set Scroll Speed`.
2. Press ◄► to scroll through scrolling speed settings:
   - `Slow Scrolling`
   - `Medium Scrolling`
   - `Fast Scrolling`
3. Press STO to select a speed.
4. Press END to exit, or scroll to other features.

Reference Information

Accessory Options

An exciting line of Motorola accessories, now smaller and lighter than ever, can enhance and personalize your cellular experience.

Batteries

Your phone uses Nickel Metal Hydride (NiMH) batteries in either AAAL or AA sizes.

Vehicle Power Adapter

With the vehicle power adapter, you can power your phone and charge its battery directly from your vehicle's cigarette lighter. In some vehicles, the engine must be running in order for the cigarette lighter to operate.

Belt Clip and Optional Battery Cover

Your digital cellular phone is positively wearable.

Just attach the optional battery cover, slip the phone into the belt clip, and attach the clip to your belt.

Notes:

- The belt clip is designed for your convenience and is not meant to secure your phone under all circumstances.
- For body-worn use, keep the antenna at least one inch from your body when transmitting.

Headset

The convenient headset provides an earphone and microphone in one small piece for simple hands-free, private telephone conversations. The headset plugs into the jack on the side of your phone, so you can wear your phone and move freely.

Easy-Install Hands-Free Vehicle Kit

The optional Hands-Free Kit gives you the convenience of hands-free, speakerphone operation while in your vehicle. Full duplex operation lets you simultaneously talk and listen, so both parties can interrupt each other for a normal sounding conversation.

The Hands-Free Kit automatically powers your phone and charges its battery. In some vehicles, the engine must be running in order for the cigarette lighter to operate.

Note: 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.

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/`.

Troubleshooting

Question	Answer
I pressed the power button, but nothing happened. What's wrong with my phone?	Be sure to press and hold the power button until the display appears and you hear an audible alert. If nothing happens, check that you have installed a battery and that the battery is charged. For more information about batteries and charging, see "Installing and Removing a Battery" on page 13.
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 battery 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 in the charger for an extra hour after the charger's light turns green. You can also turn on the Power Save Mode feature to extend battery life. However, the LED Power/Status Indicator does not light when this feature is activated. Certain features require more power and reduce battery life. If you have selected the Automatic Display of Individual Call Timer feature, the display uses power to remain active during each call. Turn this feature off to conserve battery energy. (See "Displaying the Individual Call Timer Automatically" on page 46 for more information.) Use only 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 shows "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 nothing works, call your service provider (the company that sends your monthly cellular bill). (See "Locking/ Unlocking Your Phone" on page 54.)
I tried to place a call and received a fast busy signal.	The cellular system did not process your call. For example, the cellular system may be overloaded with call attempts. To redial, press SND before ending your call attempt, or press END and try the call again later. (See "Redialing a Number" on page 21.)

Question	Answer
I tried to place a call and received an alternating high/low tone.	Your call did not reach the cellular system. You may have dialed the number too soon after turning the phone on. Wait until the No Service message is no longer displayed before placing a call. An alternating tone may indicate that the phone's signal is blocked. Be sure the antenna is fully extended and you're clear of obstructions such as bridges or tall buildings.
I am in my home service area, but the Roam indicator is flashing.	If your phone has more than one telephone number, you may need to switch active numbers. Press RCL # STO to switch to the other number. See "Switching Between Numbers" on page 63.
I tried to listen to my Voice Mail (or use a paging service, a calling card, etc.) but nothing happened.	You may have turned off the scratchpad tones. Place your call, enter the access numbers when prompted, then press RCL SND. To avoid this problem in the future, follow the directions "Turning Scratchpad Tones On and Off" on page 51 to turn the scratchpad tones on.
My phone was stolen. What should I do?	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 51 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 38, 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.

Glossary

A

AC adapter An accessory device that enables you to power your phone and charge any attached batteries from a wall outlet.

AMPS (Advanced Mobile Phone System) A cellular technology that operates on 832 channels.

accessory connector port A socket on the phone for attaching accessories such as an AC adapter.

air-time How much time you actively use a cellular system. Especially, the time between successfully placing a call and terminating a call.

antenna The device on your phone that sends and receives cellular signals.

Auto Answer A feature that answers calls automatically after two rings. See “Activating Automatic Answer” on page 67.

Automatic Redial When your cellular network cannot handle your call, this feature enables your phone to automatically redial for the next four minutes. See “Redialing a Number” on page 21.

C

Caller Line ID Network/subscription-dependent service that lets you view information on incoming calls before you answer. Not available in all areas.

cellular carrier One of multiple competing organizations in a given geographic area that owns and operates a cellular system.

cellular signal The radio waves that carry information between your cellular phone and the cellular system.

cellular system The cellular equipment in a geographic area that relays signals between cellular phones and the landline phone system.

D

DTMF tones See Dual Tone Multi-Frequency tones.

default A feature’s original setting (as programmed in the factory).

Dual Tone Multi-Frequency tones ones that your phone transmits when you press its keys, used to access automated calling systems such as Voice Mail, paging services, etc.

E

emergency call This feature enables you to make an emergency call (by an emergency number such as 911) even if the phone is locked.

F

fringe area The outermost range of a cellular system, where signals are weak.

function keys The phone's non-numeric keys, used for specific tasks.

H

home system The local system where you obtain your cellular service.

home type system A cellular system of the same type as your local cellular system. See also non-home type system, and system type.

I

icon A symbol that designates a menu feature or message.

indicator A light on your phone that provides phone status information.

Internal Charger A charger built into the phone for use with an AC or vehicle power adapter. See "Charging Batteries" on page 15.

K

Keypad Tones Sounds produced when you press the phone's keys. See "Turning Keypad Tones On and Off" on page 50.

L

landline The system used for conventional office and home phones.

lock A feature that prevents unauthorized access to your telephone.

lock code A three-digit code required for unlocking a locked phone. The factory-programmed lock code is 123. To view or change your lock code, see "Locking/Unlocking Your Phone" on page 54.

M

memory location A space in your phone's internal Phone Book where you can store a telephone number and a name.

menu feature Any phone feature available through the menu system.

menu system The layered arrangement of your phone's features.The top-level menu contains: Recent Calls, Phone Book, Timers, Tone Control, Lock Secure, and Phone Options.

Message Center Key A key near the top of the keypad that provides quick access to messages and messaging functions. See “Using Voice Mail and Text Messages” on page 73.

N

name directory An alphabetical list of the names and telephone numbers you have stored into your phone’s internal Phone Book.

Nickel Metal Hydride (NiMH) A battery technology used in personal cellular telephone batteries.

non-home type system A system type different from your home system. See also home type system and system type.

P

Pause Dialing A feature that enables you to store multiple strings of numbers in one memory location; useful for accessing automated phone systems. See “Storing and Placing Numbers for Pause Dialing” on page 36.

Personal Identification Number (PIN) A private numeric password that protects personal accounts such as bank-by-phone or Voice Mail.

prompt A message requesting input.

R

road map The visual representation of your phone’s menu system provided in this guide.

S

scratchpad tones Tones that your phone transmits when you press its keys, used to access automated calling systems such as Voice Mail, paging services, etc. If you use the Scratchpad during an active call, the other party can hear the tones. Synonymous with Dual Tone Multi-Frequency tones.

scroll To move backward or forward through a list (such as the menu system or the name directory).

security code A six-digit code used to access sensitive features in the Secure Options submenu of the Lock/Security menu.

service provider A company affiliated with a cellular carrier that provides cellular service to its customers.

signal The radio waves that carry information between your phone and the cellular system.

Speed Dial A feature that enables you to place a call by entering a stored number's two-digit memory location and then pressing and holding the SND key.

standby-time Typical length of a battery's charge if the phone is ON but not in use.

submenu A secondary level of your phone's menu system hierarchy.

System Identification A five-digit number that identifies your home cellular system. An even number indicates a wireline system; an odd number indicates a non-wireline system. See also system type.

system mode A setting that determines if your phone operates in digital or analog mode.

system type A designation that indicates one of the two competing cellular carriers in a given geographic area. The non-wireline carrier operates on the "A" block of cellular frequencies, and the wireline carrier operates on the "B" block of cellular frequencies.

T

talk-time The amount of time that you use the phone for active calls.

toggle To switch between two possible options (such as on and off).

Turbo Dial® keys A feature that enables you to dial numbers stored in memory by pressing and holding a single number key.

TDMA (Time Division Multiple Access) An efficient method of providing digital cellular communication by allowing several different conversations on the same carrier frequency.

V

vehicle power adapter An accessory device that enables you to power your phone and charge any installed batteries from a vehicle cigarette lighter.

Voice Mail Contact your Service Provider for availability.

volume keys Located on your phone's keypad, the upper and lower volume keys are used to adjust phone volume.

W

wait A special character that tells your phone to "wait" or pause for your input before sending a group of numbers stored in memory.

wireline See system type.

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Patent Information

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4254382	4636741	4800348	D316417	D332261	5366826	D368696
4302845	D288432	4802236	D316859	5182749	D353131	5510693
4312074	4648125	4809356	5017856	D332785	D353361	5511235
4327319	4649543	4811377	5018188	5185566	5375143	D369162
4329666	D288683	4811404	5020091	5187809	5375258	5513078
4369516	4654655	4827226	5020092	5193223	5379324	D369359
4369522	D289156	4827507	5020093	5195106	D354055	5519303
4378603	4662691	4829274	5028083	5195108	D354062	5519346
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Other patents pending.