

Welcome

Congratulations! You are now the proud owner of a premium state-of-the-art Motorola cellular telephone.

All Motorola 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 Motorola 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.

Thank you for choosing Motorola, a global leader in communications technology.

Enjoy your new Motorola cellular phone!



MOTOROLA

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Libertyville, Illinois 60048
1-800-331-6456 (in the United States)
1-800-461-4575 (in Canada)

Turbo Dial, VibraCall, VoiceNote,

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Introduction

What would you say to a telephone that's smaller than most wallets? Hard to believe... if you hadn't already seen it with your own eyes. The company that brought you the world's first commercially available portable cellular telephone has done it again!

Motorola is proud to present the next generation of wearable phones. Breakthrough technologies bring you a phone so innovative, it challenges the status quo. Introducing your new Motorola wearable cellular telephone.

Highlights

Your Motorola cellular phone offers exceptional features that make life easier, more organized and more fun! This small miracle of modern technology can help you:

- collect messages in the built-in answering machine, record memos, and record calls (VoiceNote™ recorder)*
- receive calls discreetly with a vibrating alert (VibraCall™ alert)
- make calls instantly with one-touch dialing (Turbo Dial™ key)
- send and receive faxes with optional data accessories
- simplify menu access and call placement with the Smart Button
- read more information on the large two-line display
- increase the length of time between charges with dual battery capability
- know when to charge with the dedicated Battery Level Indicator
- charge on the go with the internal Rapid Charger and an AC adapter or optional cigarette lighter adapter

* Use of this function is subject to varying state and federal laws regarding privacy of phone conversations.

- navigate phone features with a user-friendly icon-driven menu interface
- enjoy the convenience of hands-free operation with an optional headset
- remember phone numbers with the internal Phone Book
- monitor call length with displayed and audible Call Timers
- reduce roaming with two-system registration[†]
- display phone numbers of incoming calls with Calling Line ID capability[†]
- receive notification when you get a new Voice Mail message[†]

As you explore your Motorola cellular phone, you will discover many more convenient and time-saving features that will help you stay in touch with style. A number of accessory options are also available to tailor your cellular system to your individual needs, including special accessories for your car, and battery chargers to keep you on the go.

[†] These are network and subscription-dependent features that are not available in all areas. Contact your cellular service provider for availability.



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 Commissions (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) C95.1 1992
- National Council on Radiation Protection and Measurement (NCRP) Report 86 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996

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).

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may 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.
- 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

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 when in any area with a potentially explosive atmosphere and obey all signs and instructions.

Sparks 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 gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); 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.

Package Content Options

Your Motorola cellular phone comes equipped with a standard battery and an AC adapter. A whole line of accessory options, now smaller and lighter than ever, can customize your cellular package for maximum performance and portability.



Motorola Wearable Personal
Cellular Telephone



Auxiliary Battery
with Battery Cover



Slim Lithium Ion
Main Battery with Battery Cover
and Slim Battery Door



Extra Capacity Lithium Ion
Main Battery with Battery Cover
and Standard Battery Door



Standard Nickel Metal Hydride
Main Battery with Battery Cover
and Standard Battery Door



Holster

Cigarette Lighter
Adapter

AC Adapter



Headset

Note: The plug assembly included with your package can only be used with this power supply. Do not plug it into any wall outlet without the power supply.

Desktop Charger
(AC Adapter Required)

Note: Your Motorola cellular phone and accessories may not look exactly as pictured above.

Phone Overview



(See illustration reference on page 18.)

Retractable Antenna Extend the antenna for best performance.

Earpiece The earpiece contains an ultra-compact phone speaker.

Status Indicators

IU (In Use)—The In Use indicator flashes when a call is in progress.

NS (No Service)—If you travel beyond the range of a cellular service area, the No Service indicator flashes to indicate that calls cannot be placed or received from your location.

RM (Roam)—When you leave your cellular service area, your phone roams or seeks another cellular system until it finds one. If your phone finds another cellular service of the same system type as your local service, the Roam indicator flashes slowly. If it finds a different system type, it flashes quickly.

Signal Strength Indicator The Signal Strength indicator shows the strength of the signal your phone is receiving. The stronger the signal, the better your chances of placing and receiving calls successfully. You may see low signal strength if you are in a fringe area of the cellular system. Buildings, tunnels, and bad weather can block or interfere with reception. If the display goes blank to conserve energy, the Signal Strength indicator's lights flash one at a time up to the signal level you are receiving.



Strong Signal



Weak Signal



High Charge



Low Charge

Battery Level Indicator The Battery Level indicator tells you the amount of charge left in your battery. The more bar segments you see, the greater the charge.

Alphanumeric Display The two-line alphanumeric display shows your input from the keypad, information recalled from memory, and other messages.

Menu Icons As you move through the menu system, the icons flash to indicate the selected feature:

-  Phone Book lets you store and retrieve numbers.
-  Call Timers can monitor the length of your calls.
-  Tone Controls adjust your phone's tones.
-  Lock/Security features prevent unauthorized access.
-  Phone Options can be set to your specifications.
-  Digital Message provides access to digital messages and VoiceNote™ messages.

Headset Jack Located on the top of the phone, the headset jack provides a connection for an optional headset.

Power/Status Indicator Located on the top of the phone by the headset jack, the Power/Status indicator alerts you to incoming calls, and flashes to indicate service and roam conditions when the phone is closed.

VoiceNote™ Record Button

-  Located on the top of the phone by the antenna, this button toggles the record function on and off.

Volume Keys

- ➡  or  The upper and lower volume keys can adjust keypad, earpiece and ringer volume. They also scroll through memory entries and menu features.

Smart Button

- ➡  The Smart Button can recall information from memory, place calls, end calls, select menu features and toggle features on and off. The  symbol in your display represents the Smart Button.

Function Keys

-  turns the phone on and off
-  acts as a “shift” key to access the secondary functions of other keys
-  recalls phone numbers from memory
-  stores phone numbers into memory
-  clears characters from the screen
-  ends phone calls
-  places or answers calls
-  and  can be used to scroll through memory entries and menu features

Accessory Connector The accessory connector provides the connection for an external power supply and optional vehicular and data accessories.

Microphone The microphone is positioned for convenient conversation.

The Basics

This chapter tells you how to set up and use your Motorola cellular telephone and perform basic phone functions.

In this chapter you will learn how to:

- attach and remove the protective covers from your phone's batteries
- install and remove your phone's batteries
- charge your phone's batteries and check battery charge levels
- turn your phone on and off
- hold and wear your phone
- place and receive calls
- view your own phone number
- read your phone's Power/Status indicator
- redial numbers
- adjust your phone's ringer and earpiece volumes
- mute your phone's microphone
- set your phone to vibrate discreetly when you receive a call

Battery Information

Battery Talk Times and Standby Times

Battery talk time is the length of time you spend talking on your phone before the battery needs to be charged. Battery standby time is the length of time your phone is left on to receive calls before the battery needs to be charged.

Keep in mind that your battery's talk time and standby time are a relative measurement of the battery's capacity. The more you talk on the phone, the less standby time you will have and vice versa. Certain features can demand power from your battery and reduce battery life. The following chart is an approximate talk time and standby time guide for your phone and its available batteries.



Slim Main Battery Lithium Ion E-P™

- uses slim battery door
- up to 65 minutes of talk time or up to 24 hours of standby time



Standard Main Battery Nickel Metal Hydride

- uses standard battery door
- up to 65 minutes of talk time or up to 24 hours of standby time

Battery Talk Times and Standby Times (continued)



Extra Capacity Main Battery Lithium Ion E•P™

- uses standard battery door
- up to 110 minutes of talk time or up to 46 hours of standby time



Auxiliary Battery Lithium Ion E•P™

- up to 110 additional minutes of talk time or up to 46 additional hours of standby time

Battery Covers

Your phone's batteries are shipped in an uncharged state with protective covers on them. Save these covers; use them to carry batteries and to store batteries when they are not in use. The cover prevents objects from touching the battery terminals, thereby reducing the risk of injury or damage from a short circuit. (See "Batteries" on page 11 for additional safety information.)

To begin using your phone, just slip a battery out of its protective cover, install, and charge the battery.

Removing the Main Cover

Press down on the cover release latch until the battery slips free from its cover.



Attaching the Main Cover

Lower the battery into the cover until you hear it click into place.



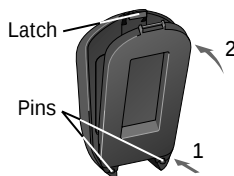
Removing the Auxiliary Cover

1. Hold the auxiliary battery securely with one hand. With your other hand's thumb, push up on the bottom of the cover.
2. Continue to push up until the cover slides free of the pins on the bottom of the battery, then swing the cover outwards.



Attaching the Auxiliary Battery Cover

1. Fit the pins at the bottom of the auxiliary battery into the holes in the base of the auxiliary cover.
2. Push the auxiliary battery and the cover together until the cover's narrow end snaps into the latch on the top of the auxiliary battery.



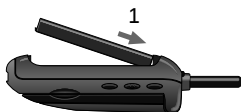
The Main Battery

Thanks to Motorola's breakthrough technology, your Motorola cellular phone's batteries are small and lightweight. Now it is easier than ever to carry a spare or two.

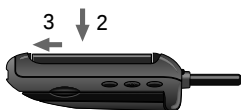
Installing the Main Battery

The main battery fits into a small compartment in the back of your phone. The battery is covered by a door.

1. Align the arrows on the battery with the arrows in the battery compartment. Place the front end of the battery into the top of the compartment as shown, so that the metal terminals on the battery make contact with the terminals in the phone.



2. Press the battery down.
3. Slide the battery toward the bottom of the phone until it is firmly in place.



4. Place the door tabs into the notches at the bottom of the compartment as shown.



5. Press the door down until you hear it click into place.



Removing the Main Battery

To remove the main battery:

1. Turn your phone off.
2. Slide the release latch up toward the top of the phone to release the battery door.



3. Remove the door.
4. Push the battery up toward the top of the phone until the back end of the battery pops free.
5. Swing the battery up and out of the compartment.



The Auxiliary Battery

Now you can use a variety of battery options to fit your individual needs. When the slim main battery is installed in your Motorola cellular phone, you can attach an optional auxiliary battery and get even more talk and/or standby time. You can extend your talk time by attaching the optional auxiliary battery at any time, without interrupting your call.



Tip: *If you have a charged slim main battery installed in your phone, you can remove and change your auxiliary battery during a call.*

Installing the Auxiliary Battery

The auxiliary battery clips onto the back of your phone:

1. Fit the pins at the bottom of the auxiliary battery into the holes in the base of the phone.
2. Push the auxiliary battery and the phone together until the latch on top of the auxiliary battery snaps into the slot on the back of the phone.



Removing the Auxiliary Battery

To remove the auxiliary battery:

1. Lift the latch on top of the auxiliary battery and pull the battery away from the phone.
2. Pull down to separate the battery from the phone.



Checking Battery Levels

Reading the Battery Level Indicator

The three bar segments on your phone's Battery Level indicator display the amount of charge remaining in your battery. The more bar segments visible, the greater the charge.

For a detailed battery level reading:

Press **FCN** then press **4** BATT CHG. You will see:



If you are using an auxiliary battery with the main battery the display will indicate which one is in use. You will see:

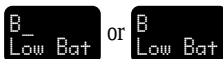


When your battery has little remaining charge:

- No bar segments are highlighted.
- Low Bat appears in the first line of the display.
- A short tone plays periodically.

Check your display to confirm low battery signals:

Press **FCN**, then press **4** BATT CHG. You will see:



High Charge



Low Charge

Charging The Battery

Using the Internal Charger

Your phone has a built-in battery charger. Using either the AC adapter or optional cigarette lighter adapter, you can plug your phone directly into a power supply and charge attached batteries—whether the phone is on or off. When the internal charger is in use and the phone is on, you can still place and receive calls. Just remember, talking on the phone requires energy, so charging will take more time.

1. Plug the AC adapter or optional cigarette lighter adapter into the accessory connector on the bottom of your phone with the release tab facing up.
2. Plug the adapter into the appropriate power source. In some cars, the ignition must be on to use the cigarette lighter.

While your phone is charging, the battery icon flashes, regardless of whether your phone is turned on or off.

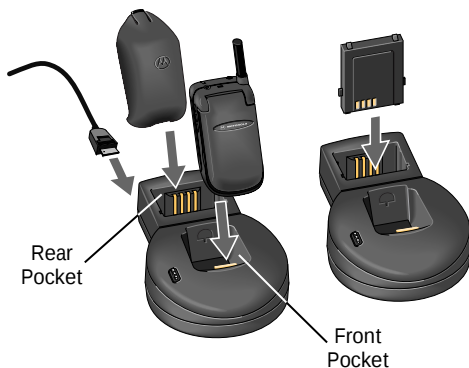
When all attached batteries are fully charged, the battery icon quits flashing and becomes solid.



Using the Desktop Charger

An optional desktop charger is available for use with your phone. The desktop charger's front pocket can charge batteries while they are attached to your phone, and the rear pocket can charge batteries separately.

First plug the AC adapter into the back of the desktop charger, with the release tab facing up. Plug the other end of the AC adapter into an AC wall socket, and you can begin charging your batteries. With battery(s) attached, place the phone into the charger's front pocket. You can also charge an extra auxiliary or main battery in the rear pocket as shown:



Note: The plug assembly included with your package can only be used with this power supply. Do not plug it into any wall outlet without the power supply.

Tip: When you charge the main and an auxiliary battery, the main battery is charged first.

Tip: Aux is displayed in place of the on message when the auxiliary battery is in use or charging.

Desktop Charger Indicator Lights

- Red means that the battery is charging.
- Flashing yellow means that the battery is waiting its turn to charge.
- Green means that the battery is charged within approximately 90% of its capacity and can be used. An additional hour of charging will bring your battery up to 100% capacity.
- Flashing red indicates that the battery is damaged and cannot be charged.

Battery Charging Times

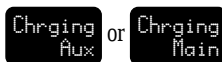
The phone's batteries charge in about one to three hours, individually, depending on the battery. Allow extra time if you are charging more than one battery.

Charging Two Batteries on the Phone

When you charge your phone with a main and auxiliary battery attached, the main battery is charged first.

To find out which battery is being charged:

Press  then press . You will see:



Leaving Batteries in the Charger

Lithium Ion batteries are different from other batteries in that you can leave them in the charger. Nickel Metal Hydride batteries should not be left in the charger for more than 24 hours.

Expert Performance (E•P™) Charging System

Your Motorola cellular phone implements the Motorola Expert Performance (E•P™) charging system. This system allows the charger that is built into the phone to communicate with the battery. Based on this communication, the charger can tailor the charging cycle to optimize performance. If your charging system is not communicating with the battery, your phone will beep and display an `Invalid Battery` message each time you power up the phone or replace the battery. Your phone is alerting you that you do not have charging capabilities with this battery.

There are several reasons why your battery might not be communicating. The most likely reason is that the battery you purchased is not a Motorola original battery and it does not have the appropriate communication technology built into it. All Motorola batteries are built with the appropriate communication technology. We recommend that you use Motorola original batteries and accessories and that you store your batteries in the protective battery cover that comes with the phone.

Storing and Disposing of Batteries

To prolong the life of your batteries, avoid exposing them to temperatures below -10°C (14°F) or above 45°C (113°F). As a good rule of thumb, always take your phone with you when you leave your car.

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

Switching Power Sources During a Call

The quick change feature lets you switch power sources without losing the call in progress. If you hear a low battery warning while you are in a call, just plug in the optional cigarette lighter adapter.

You can also remove your phone's battery and replace it with a charged spare without losing the call in progress. If you hear a low battery warning while you are in a call, quickly switch batteries and resume your conversation.

Keep in Mind: A quick change must be completed within 3 seconds to avoid losing the call in progress. Just give your party on the line a warning before beginning this procedure.

If you do not switch power sources in time, you will lose any settings that you have changed since the phone was last turned on!

Caution: To prevent injuries or burns, do not allow metal objects to contact or short circuit the battery terminals. (See “Batteries” on page 11 for additional safety information.)

Using the Phone

Turning the Phone On and Off

This section tells you everything you need to know to operate your Motorola cellular phone.

Follow these steps to turn your phone on:

1. Extend the antenna for best performance.
2. Open your phone to expose the keypad.
3. Press **PWR** to turn the phone on.

Press **PWR** again to turn the phone off.



Each time you turn on your phone, it performs a self-test to let you know your phone is operational. When the self-test is finished, the display reads **on** or **AUX** and you are ready to make and receive calls.

To conserve energy, your phone may turn off its lights and most indicators when in standby mode. The display comes back on the next time you press a key or open the phone.

Tip: **AUX** is displayed in place of the **on** message when the auxiliary battery is in use or charging.

Holding the Phone

Hold your cellular phone with the antenna fully extended and pointing up and over your shoulder. For best performance, make sure your hand is not covering the antenna.

Wearing the Phone

To slip your Motorola cellular phone into its holster, make sure the battery door is facing out (away from the holster). Just clip the holster onto a belt, purse or briefcase and you will always have it with you!

Note: The holster is designed for your convenience and is not meant to secure your phone under all circumstances.

Using the Smart Button

The Smart Button allows you to place calls, end calls, enter the menu system, toggle features on and off, and select items in the display. The Smart Button's central location—the middle key on the left side—makes it easy to feel, easy to find, and easy to use.

Tip: The  symbol in your display represents the Smart Button.

→  indicates the Smart Button



Placing a Call

To place a call:

1. First check to make sure that your phone is on.
2. Extend the antenna completely for best performance.
3. Enter the number you want to call, for example: 555-1234.

Press **CLR** to erase one digit at a time if you make a mistake.

Press and hold **CLR** to clear the entire entry.

4. Press and hold **→** until you hear a second tone,
or ...

Press **SND** to place the call.

You will see: Dialing 5551234

You can dial phone numbers with up to 32 digits, but only the last 14 digits appear in the display.

To see the entire phone number, press **RCL**. The phone shows the beginning of the phone number, then shows the rest of the phone number in 14-digit increments.

Ending a Call

To end a call:

Press , **or ...**

Close the phone, **or ...**

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

You will see:  To EndCall

2. Press .

Receiving Calls

Your phone must be on to receive calls.

To answer a call:

1. Extend the antenna completely for best performance.
2. When the phone rings, answer the call by pressing  or by opening the phone.

Tip: To make answering calls even easier, try the Multiple Key Answer feature on page 104.

Unanswered Call Indicator

Even with personal cellular technology, sometimes you are not available to answer every call. While your phone is on, it keeps count of unanswered calls and alerts you with the message `Call XX`, where `XX` is the number of calls not answered. For example, if your telephone is on and you choose not to answer a call, your display shows:



Press **CLR** to erase the message and you can begin placing calls again.

Viewing Your Own Number

To find out your cellular phone's number:

Press **RCL** then press **# ▸**.



Reading the Power/Status Indicator

When you are wearing your phone in its holster or just carrying it, you can check the Power/Status indicator on the top of the phone for status information.

Alternating Red/Green	Incoming Call
Flashing Green	In Service
Flashing Red	No Service
Yellow, slow flash	Roam: home type system
Yellow, fast flash	Roam: non-home type system

Note: The Power/Status indicator provides status information only when the phone is closed. The indicator is deactivated when you open the phone.

Redialing Numbers

Redialing Automatically

Sometimes when you attempt to place a call, the cellular system may be busy or your phone may be unable to communicate with the cellular network. With Automatic Redial, your phone attempts to place the call continuously for the next four minutes. When the phone successfully makes a connection, it rings or vibrates. When the person you are calling answers, you can begin talking.

A fast busy signal indicates that the cellular system is busy and cannot process your call immediately. A siren signal (two alternating tones) indicates that your phone cannot

communicate with the network. When you hear either of these signals, and the message **SND to Redial** appears in your display:

Press  or press **SND**.

You will see: **Redial**

If the call does not go through after four minutes:

Press  or press **SND** to continue the call attempt.

Note: These redial directions only work if you hear a fast busy signal or a siren signal.

If you hear an ordinary busy signal, try the following sequence.

1. Press **END** to hang up.
2. Press  or press **SND** to place a call to the last number dialed.

You will see: **Dialing 5551234**

Redialing One of the Last Ten Numbers Dialed

This feature makes it easy to call any one of the last ten numbers you have dialed.

1. Press **RCL**, then press **O_{OPR}** and **O_{OPR}**. The display shows the last number you dialed.
2. Press  or  to scroll through the last ten numbers dialed, starting with the most recent call.
3. Press and hold  or press **SND** to call the number in the display.

You will see: Dialing 5551234

Controlling the Volume

The upper and lower volume keys can be used to adjust both the earpiece and the ringer volume. As you press these keys, the phone's speaker demonstrates the current volume level.

Raising and Lowering Earpiece and Keypad Volume

To adjust earpiece and keypad volume:

Press  or  to raise or lower the volume.

Raising and Lowering Ringer Volume

To adjust ringer volume:

1. Press **FCN**.
2. Press  or  to raise or lower the volume.

Muting the Microphone

If you need privacy while a call is in progress, you can mute the microphone—you will be able to hear the party on the other end, but he or she will not hear you.

1. Press , then press  to mute the microphone.

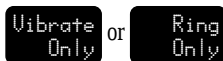
You will see: `Mute`

2. Press , then press  again to resume normal conversation.

Setting Discreet Vibration Mode

In situations where ringing may not be appropriate, or in noisy places where you may not hear your phone, use the VibraCall™ alert function for discreet notification:

1. Press .
2. Press  to toggle between ringer and vibration mode. You will see:



Phone Book Basics

Your Motorola cellular phone's internal Phone Book can store up to 99 names and numbers for easy access on the go.

In this chapter you will learn how to:

- store names and numbers into the Phone Book
- recall phone numbers from the Phone Book
- erase entries from the Phone Book
- dial phone numbers quickly with the Speed Dial and Turbo Dial™ functions
- store a phone number in the Scratchpad

Storing Names and Numbers in the Phone Book

To take advantage of your phone's internal Phone Book, you must first store some names and numbers into memory.

Each phone number is stored in a memory location numbered 01-99. You can also store names with the numbers to help identify the numbers. Later you can easily recall numbers either by memory location or by name.

Note: Several phone functions make use of specific memory locations. The Emergency Call feature (see “Activating Emergency Call” on page 85) lets you dial the phone number stored in memory location 01 even when the phone is locked. The PIN code feature (see “Setting a PIN Code” on page 100) automatically sends a PIN code number stored in memory location 07 with each outgoing call. If you intend to use the Emergency Call and/or PIN code features, you *must* store the appropriate numbers in memory locations 01 and 07 respectively.

Storing Numbers

1. Enter the phone number you want to store.
2. Press  to begin storing. The phone prompts you for a memory location.

You will see: Locatn ____

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

Press  to store the sequence in the first available memory 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.

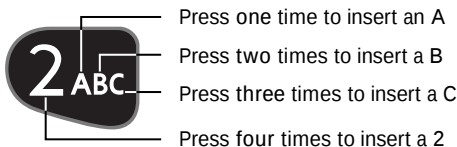
You will see: Alpha Or 

4. Enter a name to identify the phone number, or skip this step and continue with step 5. (See “Storing Names” on page 49 for instructions on how to enter names.)
5. Press  or press  when you are finished entering the name. Your phone confirms your entry by displaying the information you stored.

Tip: The  symbol in your display represents the Smart Button.

Storing Names

When the display shows **Alpha On ***, you can use the keypad to produce any letter in the alphabet by pressing the numeric keys one or more times. Just use the letters printed on each key as a guide. For example, press **2_{ABC}** to enter the letters A, B, or C as shown:



To enter a name into the Phone Book:

1. Enter a letter by pressing a key as many times as necessary.
2. Press **#>** to advance the cursor to the next space.
3. Press **<*** or press **CLR** to erase a letter if you make a mistake.
4. Continue storing additional letters in the same way.
5. Press **→|** or press **PLUS STO** when you are finished entering the name. Your phone confirms your entry by displaying the information you stored.

Tip: Press the **1** key to insert the following symbols—
' , ? \$. & !

Recalling Entries from the Phone Book

Recalling an Entry by Name

Once you have stored names and numbers, you can recall them alphabetically and place calls immediately. With one press of the Smart Button you have instant access to the name directory.

1. Press  once to enter your name directory.
2. Press  or  to scroll to the name you are looking for,
or ...

Enter the first letter of the name you want to recall from memory. The display will show the first name beginning with that letter.

Press  if you want to see the number stored with the name.

3. Press and hold  or press  to call the number associated with the name you selected.

You will see: Dialing 5551234

Erasing an Entry from the Phone Book

To erase an entry from a memory location:

1. Recall the entry by name that you want to erase.
2. Press **CLR** to clear the entry. You will see: Clear ?
3. Press **CLR** to confirm that you want to erase the entry.
The display shows the number of the memory location as the entry is erased.

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**. (This step is optional.)
2. Enter the two-digit memory location of the phone number you are looking for.
3. Press and hold **→** or press **SND** to call the number.
You will see: Dialing 5551234
4. Press **END** or close the phone to end the call, **or ...**
Press and hold **→** until you hear a second tone.
You will see: * To EndCall
Press **→** again to end the call.

Using Recall Shortcuts

Speed Dial

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

1. Enter the two-digit memory location (01-99).
2. Press and hold  to place the call, **or ...**

Press  to place the call.

You will see: Dialing 5551234

Turbo Dial™

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

Press and hold a keypad number key  through  and your call is placed!

You will see: Dialing 5551234

Your phone's Emergency Call feature gives you fast access to any number you store in memory location 01. See “Activating Emergency Call” on page 85 for instructions on how to activate this feature.

Storing a Number During a Call

In addition to your internal Phone Book, you also have a built-in Scratchpad for quick notes. The Scratchpad remembers the last phone number that was on your display. If you are on the phone and your party gives you another number to call, enter the number into the Scratchpad to place the call later.

1. Enter the number into the keypad. (The person on the line will hear tones as you dial.)
2. Press **END** to end the call you are currently in, if necessary.
3. Press **SND** to call the number in the Scratchpad.

You can also store numbers while you are in a call.

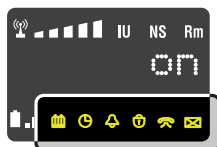
1. Enter the number into the keypad. (The person on the line will hear tones as you dial.)
2. Press **PLAY STC** and continue storing with step 3 in “Storing Numbers” on page 48.

The Menu System

Your Motorola cellular phone's menu system helps you find what you need quickly and easily.

Navigating the Menu

Each of the icons on your phone's display represents a menu feature, giving you access to many phone functions.



Menu Feature Icons

Press **FCN** then press the Smart Button to enter the menu system.

You navigate through the menu system using the three keys located on the left side of the phone. Use the upper and lower volume keys to scroll up and down through menu features and options. Use the middle Smart Button to choose menu features and options.

Press **END** to exit the menu system.

This manual uses these symbols to instruct you to use the Smart Button and the upper and lower volume keys.

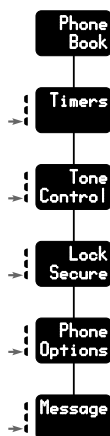
→ indicates the upper volume key

→ indicates the Smart Button

→ indicates the lower volume key



Shortcut: Experienced Motorola Users: Watch for the “Shortcuts.” You will find many of the same key sequences you have used with other Motorola models!



Road Maps

This manual provides several types of easy to follow visual road maps to help you navigate through the phone's menu system.

At the beginning of each chapter, a structural road map (like the one shown here in the margin) shows the complete menu system layout for the set of features discussed in the chapter. Simply press the key shown, and observe the message that appears in the display. For example, try this:

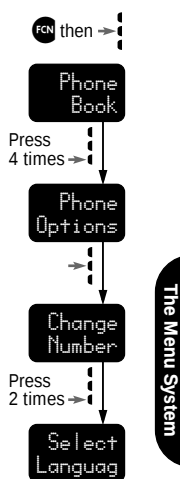
1. Press **FCN** then press **→** to enter the menu system.
You will see: Phone Book
2. Press **→** or **←** to scroll through the menu's top level.
(Notice that the icons on the bottom of your display flash as you scroll to show the current selected menu option.)
3. Press **END** to exit the menu system.

The road map on this page shows the top level menu features. You can scroll up and down through the menu list by pressing the **→** and **←** keys respectively. Press **→** to choose a menu feature when it is displayed.

This manual provides a navigation road map with each feature description to show you how to navigate to the feature. For example, the navigation road map in the margin on this page shows you how to get to the Select Language feature:

1. Press **FCN** then press **→** to enter the menu system.
You will see: Phone Book
2. Press **→** four times to scroll to Phone Options.
3. Press **→** to select Phone Options.
You will see: Change Number
4. Press **→** two times to scroll to the Select Language feature.
5. Press **END** to exit the menu.

Now it's time to learn how to use the menu system features. Move at your own pace, experiment, and have some fun!



Tip: If you are already familiar with previous Motorola cellular phones, you can use your phone's **←*** and **#** keys to scroll through the menu system.

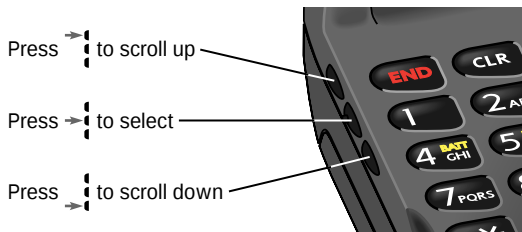
Phone Book Menu Features

In “Phone Book Basics” you learned how to store and recall phone numbers with the internal Phone Book. You can access the same features using your Motorola cellular phone’s convenient menu system.

In this chapter you will learn how to:

- store and recall phone numbers using the menu system
- simplify automated calling systems like Voice Mail
- store calling card sequences for easy access
- edit your memory information
- view your own phone number
- adjust the information on your display

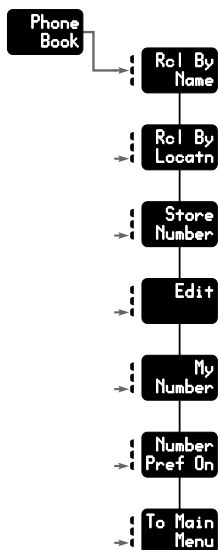
Note: Follow these symbols as a guide for using the keys on the side of your phone.



Road Map

Press **FCN** then press **→** to enter the menu system.

Start:



FCN then →

Phone
Book

→

Rec By
Name

Recalling a Phone Number by Name

Once you have stored names and numbers, you can recall them alphabetically from the Phone Book menu.

1. Follow the road map in the margin.
2. Press → to select Recall By Name.
3. Enter the first letter of the name you want to recall.
4. Press → or → to scroll to the name you are looking for.
Press **RCL** if you want to see the number stored with the name.
5. Press and hold → or press **SND** to call the number.

FCN then →

Phone
Book

→

Rec By
Name

Press
1 time →

Rec By
Locatn

Recalling a Phone Number by 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 with the Phone Book menu.

1. Follow the road map in the margin.
2. Press → to select Recall by Location.
3. Enter the two-digit memory location of the number you are looking for.
4. Press and hold → or press **SND** to call the number.



Storing Names and Phone Numbers

You can use the Phone Book menu to store names and numbers into the Phone Book. Whether you use the menu or follow the procedures described in “Phone Book Basics” on pages 48-49, you will get the same results.

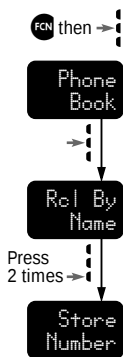
1. Follow the road map in the margin.
2. Press  to select Store Number.
3. Enter the phone number you want to store.
4. Press  when you are finished.
5. Enter the two-digit memory location where you want the sequence stored, **or ...**

Press   to store the sequence in the next available memory 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.

6. Enter a name to identify the phone number, or skip this step and continue with step 7. (See “Storing Names” on page 49 for instructions.)
7. Press  or press  when you are finished.

Your phone confirms your entry by displaying the location, number, and name you stored. Exit the menu or continue with step 3 to store more numbers.



Tip: If your chosen location is full, press  and restart the storing sequence.

Advanced Storing

Storing Access Numbers with Pause Dialing

If you often find yourself calling Voice Mail*, banking by phone or using other automated calling systems, you will appreciate the one-key convenience of Pause Dialing. Simply save the access numbers as a linked sequence, and you will never need to enter them again!

Here is how it works: 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. Enter the phone number you use to access the automated system.
2. Press **FCN** then press **SND**.
3. Press **⏸** to insert a pause into the sequence.
4. Enter the next group of numbers (for example, an account number or PIN number). If the automated system requires a * or #, enter those symbols too.

* This is a network and subscription-dependent feature that is not available in all areas. Contact your cellular service provider for availability.



5. Insert another pause and enter the next group of numbers by repeating steps 2 through 4 as many times as necessary. You can store up to 32 digits, including pauses.
6. Press  to begin storing.
7. Enter the two-digit memory location where you want the sequence stored.
8. Enter a name for your sequence. (See “Storing Names” on page 49 for instructions.)
9. Press  when you are finished entering the name. Your phone will confirm your entry by displaying the location, number, and name you stored.

Placing a Call with Pause Dialing

1. Recall the phone and access number sequence you have stored. (See “Storing Access Numbers with Pause Dialing” on page 62.)
2. Press and hold  or press  to place the call.
3. When you are prompted for information, just press  or press  to send the next set of stored numbers.
4. Press  or  as many times as necessary to transmit all the numbers.

Storing Calling Card Information

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

You can protect your calling card information with your phone's security features. See "Security Features" on pages 81-92 for details.

1. Enter the phone number you use to access your calling card system (usually a 1-800 phone number). Skip this step if you only dial 0.
2. Press **FCN** then press **SND**.
3. Press **→|** to insert a pause into the sequence.
4. Enter the next group of numbers. (For example, some long distance carriers require you to dial a 0 before the number you are calling.)
5. Press **FCN** then press **SND**.
6. Press **→|** to scroll to the number character.
You will see: Insert Num 'N
7. Press **→|** to insert the 'N character into the sequence. This special character saves a place for the phone number you will be calling. The number is inserted into the sequence automatically when you place the call.
8. Press **FCN** then press **SND**.



9. Press  to insert another pause.
10. Enter your calling card PIN number.
11. Press  to store your calling card sequence.
12. Enter the two-digit memory location where you want the sequence stored.
13. Enter a name for your sequence. (See “Storing Names” on page 49 for instructions.)
14. Press  when you are finished entering the name. Your phone will confirm your entry by displaying the location, number, and name you stored.

Placing a Calling Card Call

After you have stored your calling card information, just recall the information, enter the number of the person you are calling, and your phone does the rest.

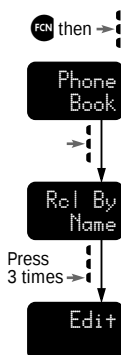
1. Recall the calling card information you have stored. (See “Storing Calling Card Information” on page 64.)
2. Press **SND** before entering the phone number you want to call. You will see: Enter Number
3. Enter the phone number you want to call, including the area code. You may enter the number manually, 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 prompted. Your phone automatically inserts the number to call at the appropriate spot in the sequence.
6. Repeat step 5 to send the next group of numbers as many times as necessary.



Editing Stored Information

You can edit names and numbers or erase entries stored in the Phone Book at any time.

1. Follow the road map in the margin.
2. Press  to select Edit. To find the entry you want to edit, recall it by location or by name.
3. Press  to recall the entry by location, and continue with step 4a, **or ...**
Press  to scroll to Recall By Name, then press  to select, and continue with step 4b.
4. Recall the entry.
 - a. Enter the two-digit memory location of the phone number you want to edit. Continue with step 5.
 - b. Enter the first letter of the name you want to edit. The display will show the first name beginning with that letter, **or ...**
Press  **or**  to scroll to the name you are looking for, then continue with step 5.
5. Press  to begin editing.
6. Press  to erase one digit at a time. Press and hold  to erase the entire number. Enter your changes to the phone number.



7. Press  when you finish editing the phone number. The display shows the location where the number is currently stored.
8. Press  to erase the memory location and 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.
9. Press  to erase one letter at a time, or skip this step to leave the name unchanged. Enter your changes to the name. (See “Storing Names” on page 49 for instructions.)
10. Press  when you finish editing the name. The display shows the new information and asks if you want to save your changes.
11. Press  to save your changes. Your phone confirms your entry by displaying the location, number, and name you stored, **or ...**

Press  to leave the information unchanged.

You will see: Locatn ____

Enter a new two-digit memory location to avoid overwriting the information in the current location.



Viewing Your Number

Use this feature to view your cellular 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 "Changing the Active Phone Number" on page 96).

1. Follow the road map in the margin.
2. Press  to view your own phone number.

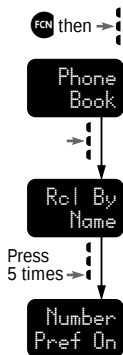
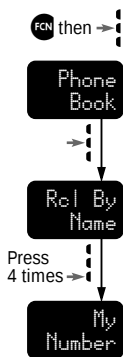
After six seconds, the display reverts to: My Number

Shortcut: Press  then press  for a quick look at your phone number.

Setting Display Preference

The Number Preference feature determines the order in which the Phone Book displays information. When you recall information by location and Number Preference is on, you see the stored phone number and must press  to see the associated name. When Number Preference is off, you see the stored name and must press  to see the associated phone number.

1. Follow the road map in the margin.
2. Press  to toggle the feature on or off.



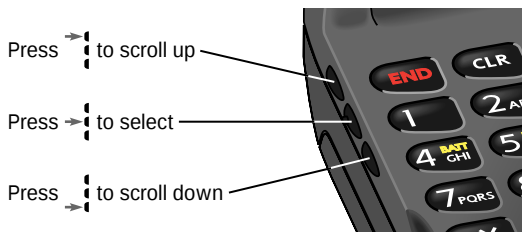
Call Timers

Your Motorola cellular phone's Call Timer features 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 one-minute intervals during a call.

In this chapter you will learn how to:

- monitor the length of your calls
- set and view the resettable timer for long-term monitoring
- display total accumulated air-time
- automatically display the length of individual calls
- activate the one-minute audible timer

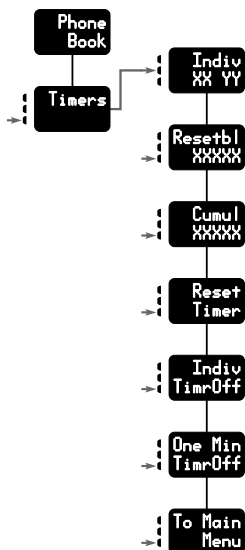
Note: Follow these symbols as a guide for using the keys on the side of your phone.

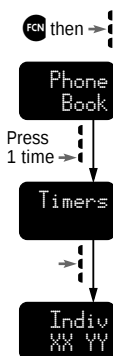


Road Map

Press **FCN** then press **→** to enter the menu system.

Start:





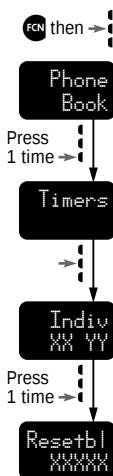
Viewing the Individual Call Timer

You can view the air-time of the most recent call or the call in progress at any time. You can also have this timer display automatically while calls are in progress (see “Displaying the Individual Call Timer Automatically” on page 75).

Follow the road map in the margin to view the Individual Call Timer.

The display shows the air-time of your last call in minutes (XX) and seconds (YY).

Shortcut: Press **FCN** then press **#▶** two times for a quick look at this timer.



Viewing the Resettable Call Timer

You can track how much air-time you have accumulated during any time period you choose. See “Resetting the Timer” on page 74 for instructions on how to reset the timer.

Follow the road map in the margin to view the Resettable Call Timer.

The display shows the air-time in minutes since you last reset the timer.

Shortcut: Press **FCN** then press **#▶** three times for a quick look at this timer.

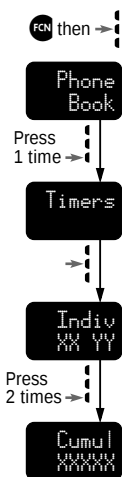
Viewing the Cumulative Timer

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

Follow the road map in the margin to view the Cumulative Timer.

The display shows the air-time in minutes since your phone was activated.

Shortcut: Press **RCL** then press **#▶** four times for a quick look at this timer.





Phone
Book

Press
1 time →

Timers



Indiv
XX YY

Press
3 times* →

Reset
Timer

Resetting the Timer

This feature resets the Resettable Call Timer (See “Viewing the Resettable Call Timer” on page 72). Use the Reset Timer feature at the beginning of each billing cycle and the timer will keep track of your total air-time (in minutes) until you reset it again.

1. Follow the road map in the margin.
2. Press → to reset the timer.

Note: This feature does not appear in your display if the Resettable Call Timer is already set at zero.

* This feature does not appear if the Resettable Call Timer is set at zero.

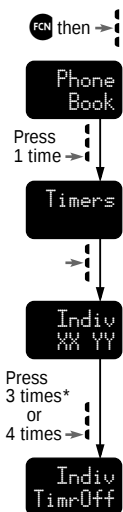


Displaying the Individual Call Timer Automatically

This feature causes the Individual Call Timer to automatically display your air-time in minutes and seconds during and after each call. (See “Viewing the Individual Call Timer” on page 72 for information about the Individual Call Timer.)

1. Follow the road map in the margin.
2. Press  to toggle the feature on or off.

Note: Activating the Auto Display Timer may reduce your phone battery's talk time and standby time.



* If Resettable Call Timer is set at zero.



Phone
Book

Press
1 time →

Timers



Indiv
XX YY

Press
4 times*
or
5 times →

One Min
TimrOff

* If Resettable Call
Timer is set at zero.

Activating the One Minute Audible Timer

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

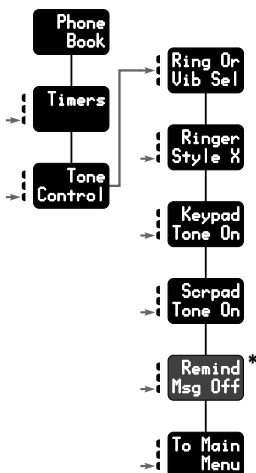
1. Follow the road map in the margin.
2. Press → to toggle the feature on or off.



Road Map

Press **FCN** then press **→** to enter the menu system.

Start:



* This feature is only available if your cellular service provider offers Digital Messaging Services. See “Activating the Digital Message Reminder” on page 125 for information about this feature.

Setting Call Alert

You can choose to be alerted to incoming calls using the VibraCall™ alert function, the ringer, both, or neither.

1. Follow the road map in the margin.
2. Press  to select Ring or Vib Sel.
3. Press  or  to scroll through your choices:



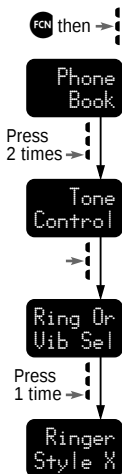
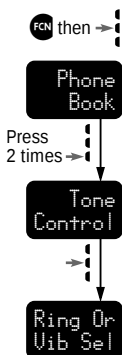
When both the ringer and vibrator are on, the phone vibrates for three ring cycles and then rings.

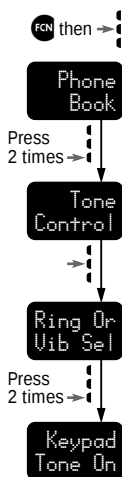
4. Press  to select the setting you want.

Selecting a Ringer Style

Your Motorola cellular phone lets you choose from nine different ringer styles. When you choose a style, the phone plays a brief sample of your new alert sound, or vibrates if you have the VibraCall™ alert function selected.

1. Follow the road map in the margin.
2. Press  to select Ringer Style. The phone shows the current selected ringer style number and plays a brief sample.
3. Press  through  to hear the different ringer styles, or press  or  to scroll through the ringer styles.
4. Press  to select the ringer style you want.



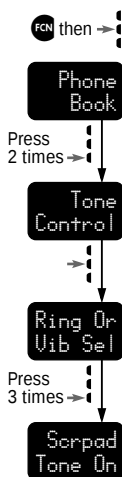


Setting Keypad Tones

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

1. Follow the road map in the margin.
2. Press  to toggle the feature on or off.

Note: The other party will still hear tones.



Setting Scratchpad Tones

Scratchpad tones are the tones that your phone sends to access automated calling systems like Voice Mail. If you do not want your party to hear these sounds when you use the Scratchpad, turn the Scratchpad tones off.

1. Follow the road map in the margin.
2. Press  to toggle the feature on or off.

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

Press  then press  to send the tones.

Security Features

Your Motorola cellular phone has a number of built-in security features to help prevent unauthorized use. You can keep your personal information intact and restrict call placement while lending your phone to other people.

In this chapter you will learn how to:

- set the Theft Alarm
- lock and unlock your phone
- view and change your lock code
- place emergency calls
- restrict call placement and memory access
- reset or clear your phone's settings

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

Press → to scroll up

Press → to select

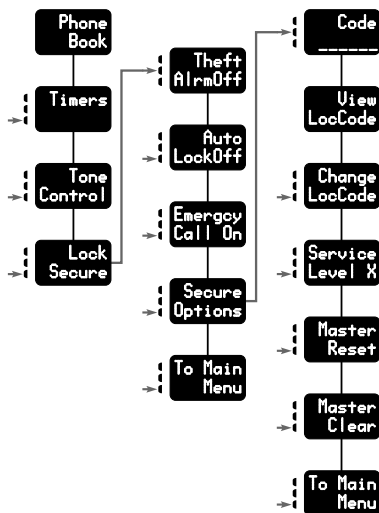
Press → to scroll down



Road Map

Press **FCN** then press **→** to enter the menu system.

Start:



Setting the Theft Alarm

The Theft Alarm locks your phone to prevent unauthorized access. To unlock it, you must enter your three-digit lock code. (See “Unlocking the Phone” on page 84 and “Viewing Your Lock Code” on page 87 for additional information about your phone’s lock code.) If an unauthorized person turns the phone on and does not enter the lock code within 30 seconds, your phone places two calls to a single pre-programmed telephone number that you specify. The person who answers the call will hear a high-pitched alarm tone indicating that your phone is in distress. You must unlock your phone to resume normal operation.

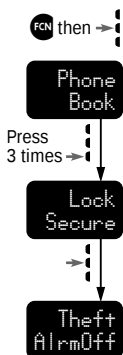
1. Follow the road map in the margin.
1. Press  to toggle the feature on or off. When you turn the alarm on, the display prompts you for a telephone number.
2. Press  to see the previously stored number (if you entered one earlier), **or ...**

Enter the number you want the phone to call in the event of unauthorized access.

3. Press  to set the alarm.

When the Theft Alarm is on, you will see *Armed* in the display. The Theft Alarm is reset before each use.

Note: If your phone is lost or stolen, contact your cellular service provider to turn off service to the phone.





Setting the Automatic Electronic Lock

When you activate this feature, your phone automatically locks itself each time the phone is turned off.

1. Follow the road map in the margin.
2. Press to toggle the feature on or off.

Locking the Phone Manually

You can lock your phone manually at any time to help prevent unwanted use. Once locked, you can leave your phone on or turn it off and the phone remains locked.

1. Press .
2. Press and hold for at least one full second.
You will see: Lock?
3. Press or press to lock your phone.
You will see: Locked

Unlocking the Phone

Once your phone is on, just enter your three-digit lock code to unlock your phone. (See “Viewing Your Lock Code” on page 87 for instructions on how to display your lock code.)

You can still receive calls when the phone is locked.

1. Enter your three-digit lock code.
2. Press to receive the call.

Tip: If you have forgotten your lock code, try pressing , , or the last three digits of your cellular phone number.

Activating Emergency Call

With Emergency Call on, you can use the Turbo Dial™ function to dial the important number that you stored in memory location 01 even when the phone is locked.

1. Follow the road map in the margin.
2. Press →| to toggle the feature on or off.

Keep in Mind:

- Your emergency call number must be stored in memory location 01. Be careful not to overwrite the number stored in this location.
- Some cellular systems have their own emergency numbers and do not allow access to emergency numbers like 911. Check with your cellular service provider.
- With Theft Alarm on, you need to unlock the phone before placing an emergency call.



Security Options

The Security Options sub-menu contains a number of security features. For your protection, you must enter a six-digit security code to access these features. The factory programmed lock code is 123 and the six-digit security code is 000000. These may have been changed at the time your phone was activated. Contact your cellular service provider if you are unable to determine the security code for your phone.



Viewing Your Lock Code

The View Lock Code feature displays the currently active three-digit lock code.

Note: You will have to enter your six-digit security code at the Code _____ prompt to access the Security Options sub-menu.

1. Follow the road map in the margin.
2. Press  to display your three-digit lock code. It appears for a few seconds.
You will see: LocCode XXX





Phone
Book

Press
3 times →

Lock
Secure



Theft
AlarmOff

Press
3 times →

Secure
Options



Code

View
LocCode

Press
1 time →

Change
LocCode

Changing Your Lock Code

The Change Lock Code feature lets you change your three-digit lock code.

Note: You will have to enter your six-digit security code at the Code _____ prompt to access the Security Options sub-menu.

1. Follow the road map in the margin.
2. Press → to select the Change Lock Code feature.
You will see: Enter Code ____
3. Enter the new three-digit code. It is displayed for a few seconds. You will see: Changed To XXX



Setting the Service Level

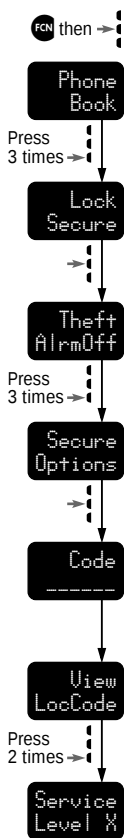
You may want to restrict call placement or hide memory information when loaning your phone to others. Your phone offers eight service levels that provide different combinations of access privileges and restrictions.

Note: You will have to enter your six-digit security code at the Code _____ prompt to access the Security Options sub-menu.

1. Follow the road map in the margin.
2. Press  to select Service Level. The phone displays your current service level. (See “Service Level Settings” on page 90 for descriptions.)
3. Press  or  to scroll through the Service Level settings.
4. 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-__

5. (Level 7 only) Enter the range of memory locations from which calls are allowed. The phone confirms the allowed range. You will see: 1-XX Allowed



Service Level Settings

Level 1: Calls can be placed from memory locations 1-10 only. • No dialing from keypad • No memory edit or storage	
Level 2: Calls can be placed from all memory locations. • No dialing from keypad • No memory edit or storage	
Level 3: Calls can be placed manually from the keypad only. • No access to memory information • No memory edit or storage	
Level 4: This is the standard setting. • No restrictions	
Level 5: Seven-digit (local) dialing is allowed only. • DTMF tones not transmitted (to prevent calling card calls)	
Level 6: Calls can be placed from the keypad and from memory. • No edit or memory storage to memory locations 1-10 • No memory edit or storage	
Level 7: Calls can be placed from a selected memory range only. • Memory edit and storage allowed within the selected range • No access to alphabetic memory	
Level 8: No edit, storage, or recall from memory locations 1-10 is allowed.	

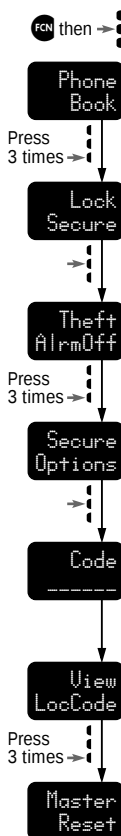
Resetting All Options

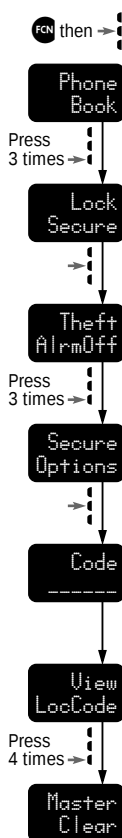
The Master Reset feature resets all user-selectable options back to the original factory setting.

Keep in Mind: Once you select Master Reset, the process cannot be canceled or reversed.

Note: You will have to enter your six-digit security code at the Code _____ prompt to access the Security Options sub-menu.

1. Follow the road map in the margin.
2. Press **END** to exit the menu without resetting, **or ...**
Press **→** if you want to reset your phone's options back to their factory settings.





Clearing All Stored Information

The Master Clear feature resets all user-selectable options, clears the resettable timer, and erases all Phone Book information.

Keep in Mind: Once you select Master Clear, the process cannot be canceled or reversed.

Note: You will have to enter your six-digit security code at the Code ----- prompt to access the Security Options sub-menu.

1. Follow the road map in the margin.
2. Press **END** to exit the menu without clearing phone memory and resetting options, **or ...**

Press **→** to clear the memory and reset your phone's options back to their factory settings. This will take a few seconds.

As the phone resets, you will see: *Busy*

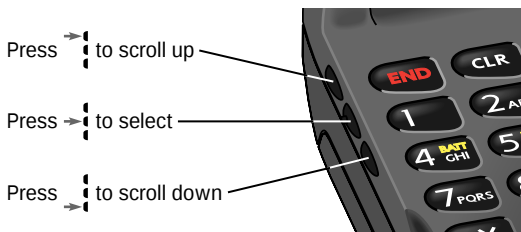
Phone Options

The Phone Options menu is your command center for adjusting the way your phone sends and receives calls. You can tweak your system for optimal performance by choosing from a number of convenient features.

In this chapter you will learn how to:

- switch cellular phone numbers
- select the system mode
- select the language for the menu prompts
- review your phone's feature settings
- set a PIN code
- disable call reception
- select features for vehicular use
- conserve battery power, and much more

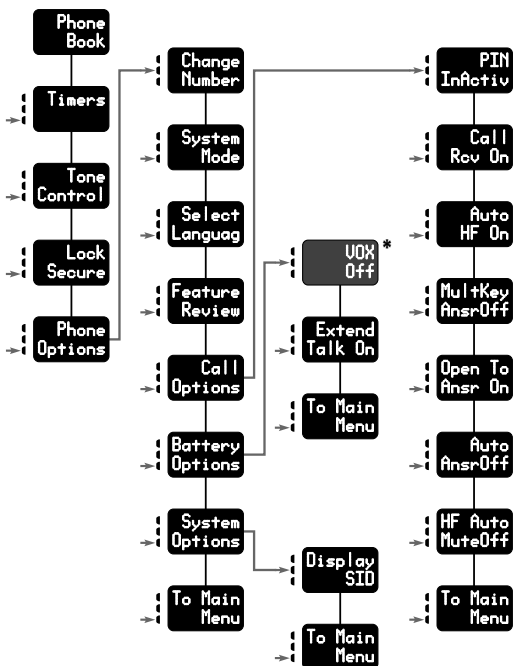
Note: Follow these symbols as a guide for using the keys on the side of your phone.



Road Map

Press **FCN** then press **→** to enter the menu system.

Start:



* This feature is not available in many areas. It does not appear in your display unless it has been turned on by your cellular service provider. Contact your service provider for availability.

Using Two Cellular Phone 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. The Change Number feature lets you change your active number to the one appropriate for the area you are in.

Both phone numbers 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, the display indicates which phone number and home system are currently active:



Non-wireline type with phone number 1



Non-wireline type with phone number 2

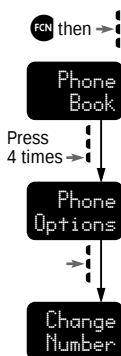


Wireline with phone number 1



Wireline with phone number 2

In most areas, there are two competing cellular carriers, the “wireline” carrier and the “non-wireline” carrier. The display identifies a non-wireline home system as a type A system, and identifies a wireline home system as a type B system.



Changing the Active Phone Number

To change the active phone number:

1. Follow the road map in the margin.
2. Press to select Change Number.
3. Press to switch to your other phone number.
4. Press to confirm the new setting.

Shortcut: Press then press to switch to your other phone number.



Selecting Cellular System Mode

The System Mode feature lets you select the type of cellular system your phone accesses. This feature typically is configured by your cellular service provider.

1. Follow the road map in the margin.
2. Press to select System Mode.
3. Press to scroll through the system mode settings. (See “System Mode Settings” on pages 97-98 for descriptions.)
4. Press to select a system mode setting.

System Mode Settings

System Mode	Display
Standard Mode: Your phone first seeks a home type system, then a non-home type system. <i>If home system is non-wireline (type A)</i> <i>If home system is wireline (type B)</i>	 
Reversed Preference Mode: Your phone first seeks a non-home type system, then a home type system. (This mode may be useful in fringe areas or certain roaming situations.) <i>If home system is non-wireline (type A)</i> <i>If home system is wireline (type B)</i>	 
Home Only Mode: Phone will not operate outside its home system.	
Scan A Mode: Phone will operate only within non-wireline (A) systems.	
Scan B Mode: Phone will operate only within wireline (B) systems.	

System Mode Settings (continued)

System Mode	Display
Enhanced Preferred Scanning Mode: Phone scans for home or programmed preferred System ID numbers (SIDs) first. This mode requires entry of up to sixty SIDs for the systems in which you wish to operate. Contact your cellular service provider for SID information. If you have selected two system operation, the phone seeks cellular service according to the system type mode selected for each phone number.	

Programming Preferred SIDs in Preferred Scanning Mode

To program the preferred SIDs to be used in **P Scan** mode:

1. Press **7** , **9** , **7** , **4** , **3**  (spells SYSID).
2. Press **FCN**, **FCN** and enter the appropriate 5-digit SID number (from your cellular service provider).
3. Press **PLAY STO** to store the SID number.
4. Press **←** or **#** to scroll through the system type choices (Home, Roam, or Inhibit).
5. Press **PLAY STO** to select the desired system type.
6. Press **#** and repeat steps 1 through 5 to program another preferred SID, **or ...**
Press **END** to exit preferred SIDs programming.



Selecting a Language

This feature lets you change the language used for all the prompts in your phone.

1. Follow the road map in the margin.
2. Press  to select Select Language.
3. Press  to scroll through the language options.
4. Press  to select the language setting you want.



Reviewing Your Phone Settings

Feature Review displays any features that you have changed from the default settings.

Note: Settings cannot be changed while scrolling through Feature Review.

1. Follow the road map in the margin.
2. Press  to select Feature Review. If no features have been changed, you will see: Std Setting
3. Press  to scroll through any features you have changed from their default settings.





Phone
Book

Press
4 times ->

Phone
Options



Change
Number

Press
4 times ->

Call
Options



PIN
InActiv

Setting a PIN Code

Your cellular carrier may require a Personal Identification Number (PIN) when placing calls. This code assures the cellular system that the caller is an authorized user.

If a PIN is required by your system, you will need to activate this feature before you can place calls. If you enter a service area which does not require a PIN code, make sure the feature is set to PIN Inactive.

1. Follow the road map in the margin.
2. Press -> to toggle the feature on and off.

See “Storing a PIN Code in Memory Location 07” on page 101 for instructions on how to store a PIN code. See “Placing a Call With PIN Code Active” on page 101 for instructions on how to send your PIN code automatically with all outgoing calls.



Storing a PIN Code in Memory Location 07

Use the following procedure to store a PIN code in memory location 07.

Note: Your PIN code number must be stored in memory location 07. The PIN code number you store in memory location 07 will overwrite any information already in that location!

1. Enter PIN code.
2. Press . You will see: Locatn ____
3. Press , . You will see: Alpha Or #
4. Press  or . You will see: Stored at 07

Placing a Call With PIN Code Active

1. Enter number to be called, or recall from memory.
2. Press , or ...
Press and hold . Wait for the double tone (“beep, beep”).
3. Press , or ...
Press .

The phone automatically sends the PIN code stored in memory location 07.

If you see the message *Invalid Pin*, check to see if you have stored a PIN number in memory location 07. The PIN code must be less than seven digits.



then →

Phone
Book

Press
4 times →

Phone
Options



Change
Number

Press
4 times →

Call
Options



PIN
InActiv

Press
1 time →

Call
Rev On

Disabling Call Reception

There are times when you cannot be bothered. Turn this feature off to disable call reception. Your phone informs you of incoming calls without receiving them. While this feature is on, your display indicates number of calls.

1. Follow the road map in the margin.
2. Press → to toggle the feature on and off.

Shortcut: Press then press →, then , to access the Call Receive feature.



Setting Automatic Hands-Free Operation

Turn this feature on when you are using Hands-Free vehicular accessories. See “Accessory Options” on page 126 for more information about accessories for your car.

1. Follow the road map in the margin.
2. Press to toggle the feature on and off.

Shortcut: Press then press , then , to access the Automatic Hands-Free feature.





Setting Multiple Key Answer

Why fumble for the **SND** key to answer calls? With Multiple Key Answer on, you can answer calls by pressing the Smart Button, any key on the upper keypad **1** through **#**, or the upper and lower volume keys.

1. Follow the road map in the margin.
2. Press **→** to toggle the feature on and off.

Shortcut: Press **FCN** then press **→**, then **2_{ABC}**, **0_{OPR}** to access the Multiple Key Answer feature.

Setting Open to Answer

Your phone company may offer services like calling line identification (Caller ID) that let you see the display before answering the call. By setting Open to Answer off, you can open the phone to see the message in the display and then answer the call by pressing **SND** or the Smart Button!

1. Follow the road map in the margin.
2. Press  to toggle the feature on and off.





Setting Automatic Answer

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

1. Follow the road map in the margin.
2. Press → to toggle the feature on and off.

Notes:

- If the ringer and VibraCall™ alert functions are off, your phone will answer without ringing or vibrating.
- This feature must be reset after each call.

Shortcut: Press FCN then press →, then 2 ABC, 6 MNO to access the Automatic Answer feature.

Setting Hands-Free Auto Mute

Turn this feature on when you are using Hands-Free vehicular accessories. If your phone is muted (see “Muting the Microphone” on page 45), the Hands-Free Auto Mute feature automatically deactivates muting when you place your phone in a vehicular accessory. See “Accessory Options” on page 126 for more information about accessories for your car.

1. Follow the road map in the margin.
2. Press  to toggle the feature on and off.





Setting Voice Operated Transmission (VOX)*

Normally, your phone's transmitter is active throughout the duration of a call. With this feature on, you conserve battery power because your phone's transmitter is activated only when you are talking.

1. Follow the road map in the margin.
2. Press → to toggle the feature on and off.

Shortcut: Press **FCN** then press →, then **2 ABC**, **4 BATT CH** to access the Voice Operated Transmission feature.

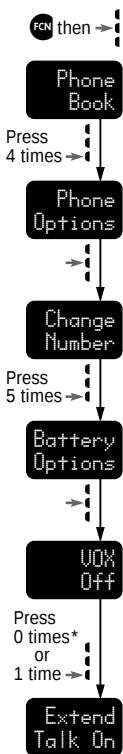
* This feature is not available in many areas. It does not appear in your display unless it has been turned on by your cellular service provider. Contact your service provider for availability.

Setting Extended Talk Time

When you are in a strong signal area, turn the Extended Talk Time feature on and receive extra talk time from your phone's battery!

1. Follow the road map in the margin.
2. Press to toggle the feature on and off.

Shortcut: Press then press , then , to access the Extended Talk Time feature.



* If Voice Operated Transmission (VOX) is not turned on.



Displaying System Identification (SID)

This feature shows you the System ID number (SID) that identifies the cellular system your phone is currently accessing. An even number indicates a wireline system and an odd number indicates a non-wireline system.

1. Follow the road map in the margin.
2. Press → to view the System ID number. After six seconds, the display reverts to: Display SID.

Shortcut: Press FCN then press →, then 2_{ABC}, 7_{PGMS} to access the Display System Identification feature.

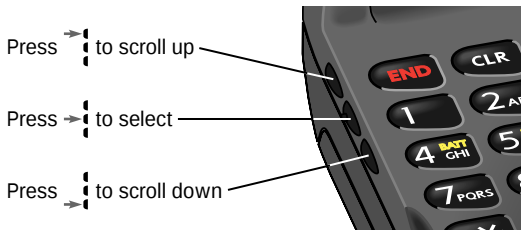
Digital Message Features

Some cellular carriers let you subscribe to a Digital Messaging Service that allows you to use your cellular phone like a pager. Ask your cellular service provider about the availability of messaging in your area.

In this chapter you will learn how to:

- work with your VoiceNote™ answering machine, memo recorder, and call recorder
- view your digital messages
- set reminder tones or vibrations to remind you of unread messages

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



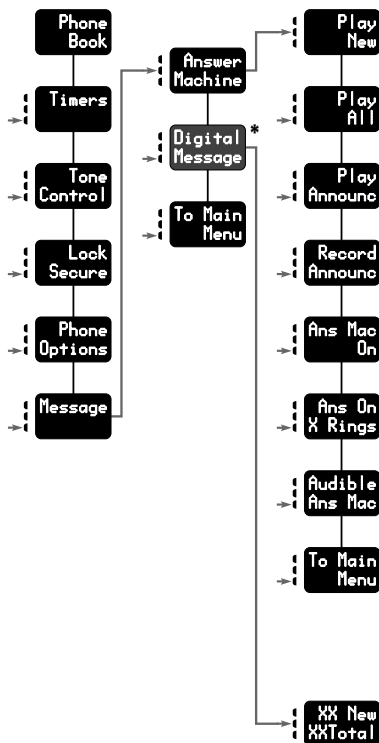
Note: Follow this symbol as a guide for using the VoiceNote™ record button on the top of your phone.

Press 

Road Map

Press **FCN** then press **→** to enter the menu system.

Start:



* This feature is not available in many areas. Contact your cellular service provider for availability.

VoiceNote™ Recorder

Your Motorola cellular phone contains a four minute digital voice recording chip that allows the phone to perform three different functions with the VoiceNote™ feature:

- **Digital Answering Machine**

The built-in answering machine allows you to leave an announcement message for callers and to record messages from them.

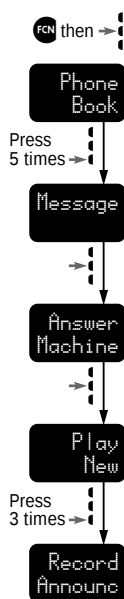
- **Voice Memo feature**

Leave yourself a reminder message in your own voice! (For example, “Pick up milk on the way home.”)

- **Call Record feature**

Record the incoming portion of a telephone conversation. (For example, record those directions to the customer office or the phone number given by information instead of writing them down.)

Note: Use of this function is subject to varying state and federal laws regarding privacy of phone conversations.



Recording an Announcement

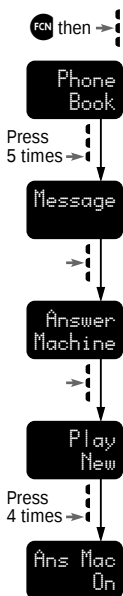
Your built-in answering machine can record a message in your voice to greet people who call your phone.

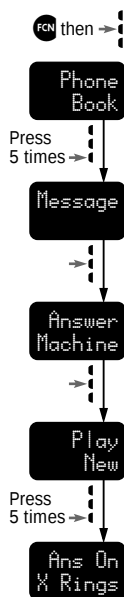
1. Follow the road map in the margin.
 2. Press  to select Record Announcement.
 3. Listen for the beep. After the beep, record your message, speaking into the phone as you would normally.
 4. When you have finished your message, press .
- The phone plays back the message you recorded.

Activating the Answering Machine

Use this feature to choose whether your answering machine picks up unanswered calls or not.

1. Follow the road map in the margin.
2. Press →| to toggle the feature on and off.





Setting Number of Rings

The Ring Number Setting feature lets you specify how many rings it takes before the answering machine picks up the call.

1. Follow the road map in the margin.
2. Press → to select Ans On X Rings.
3. Press 1 through 9 to indicate how many rings you would like.

The display shows the number of rings you have specified (X). You will see: # Rings X

4. Press → to confirm this setting.

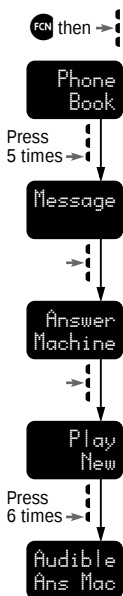
You will see: X Rings Set

Activating the Audible Answering Machine

Sometimes you may want to be able to listen in while someone leaves a message on your answering machine. By setting this feature on, you can listen on the earpiece. If you decide you want to answer the call, simply press **SND** or **→**.

1. Follow the road map in the margin.
2. Press **→** to toggle between audible and silent modes.

You will see: Audible Ans Mac
or Silent Ans Mac



Recording a Voice Memo Message

Your phone can store up to four minutes of messages including voice messages that you leave for yourself!

Tip: The  symbol indicates the VoiceNote™ record button, located on the top of your phone by the antenna.

1. Press  to begin recording. A tone sounds in the earpiece.
2. After the tone, leave your message by speaking normally into the phone.
3. When you are finished, press  to stop recording. You will see: 

The Message icon on the phone blinks to indicate that you have left a voice memo message.

Notes:

- You can also press ,  instead of  to toggle recording on and off. This may be useful when you cannot reach the VoiceNote™ record button if it is in a car kit.
- If you have not recorded an answering machine message, the phone automatically takes you to the Record Announcement menu the first time you try to use the Voice Memo feature. See “Recording an Announcement” on page 114 for instructions.

Recording a Phone Call

You can also record the other people in a phone call using the VoiceNote™ Call Record feature. This is really convenient for saving things like phone numbers and directions!

1. Press  when you are in a call to begin recording.

The other people on the line will hear a beep every 15 seconds to let them know they are being recorded.

2. When you want to stop recording the call, press . You will see: 

The Message icon on the phone blinks to indicate that you have recorded a phone call.

Notes:

- You can also press ,  instead of  to toggle recording on and off. This may be useful when you cannot reach the VoiceNote™ button if it is in a car kit.
- If you have not recorded an answering machine message, the phone automatically takes you to the Record Announcement menu the first time you try to use the Call Record feature. See “Recording an Announcement” on page 114 for instructions.
- Use of this function is subject to varying state and federal laws regarding privacy of phone conversations.



Phone
Book

Press
5 times →

Message

Answer
Machine

Play
New

Playing New Messages

This feature lets you play back only newly recorded VoiceNote™ messages that you have not heard yet.

1. Follow the road map in the margin.
2. Press → to select Play New.
3. Press # or * to scroll through your messages, or wait for the phone to play all messages in order.
After the last message has played you can delete all messages. You will see: CLR To Erase
4. Press CLR to delete all messages, **or ...**
Press END to exit without deleting your messages.

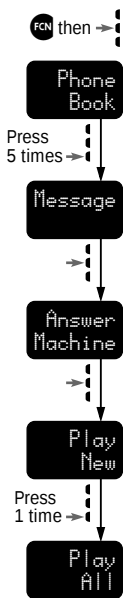
Playing All Messages

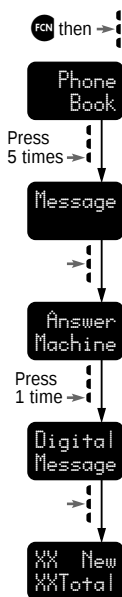
You can also choose to play back all recorded VoiceNote™ messages regardless of whether they are new or not!

1. Follow the road map in the margin.
2. Press → to select Play All Messages.
3. Press #▶ or ◀* to scroll through your messages, or wait for the phone to play all messages in order.

After the last message has played you can delete all messages. You will see: CLR To Erase

4. Press CLR to delete all messages, **or ...**
Press END to exit without deleting your messages.





Viewing Digital Messages

If your cellular service provider offers Digital Messaging Services, you can use this feature to view your messages.

The service lets your cellular phone receive messages like a pager. Calling line identification numbers (Caller ID)*, Voice Mail notification*, and pager-like alphanumeric messages* are all stored for your review. Your phone saves up to 20 messages, and replaces the oldest messages with new messages as they are received.

Your cellular phone displays the number of new messages and the total number of messages you have received. You can view messages, immediately place calls, or store the numbers into your Phone Book's memory. (See "Phone Book Basics" on page 46 for instructions on how to use the Phone Book.)

Displaying Your Messages

1. Follow the road map in the margin.
2. Press  or  to scroll through your messages.

Each message is numbered from 01 to 20, with a label such as: 01 New (any new message) or 01 CID (previously viewed Caller ID message).

* This is a network and subscription-dependent feature that is not available in all areas. Contact your cellular service provider for availability.

The label is displayed for several seconds, followed by the message. For example, a previously viewed Caller ID number stored in the first memory location is displayed as:



Note: Some calls do not include Caller ID information. If you receive a call that does not include this information, you will see: Private or No ID

Shortcut: Press **RCL** then press and hold **RCL** and continue with step 2 if you have messages.

Dialing the Displayed Number

Press and hold **→** or press **SND** to call the displayed number.

Storing the Displayed Number

Press **CLAS** to begin storing the displayed number into memory. Continue storing with step 3 as described in “Storing Numbers” on page 48.

Deleting a Message

To erase the message in the display, press and hold **CLR** until you see: Deleted

Deleting All Messages

1. Select the Digital Message feature.
You will see: **XX New XXTotal**
2. Press and hold **CLR** until you see: **Erase All?**
3. Press **→** or press **CLR** to confirm that you want to delete all of your messages.
You will see: **Mgs Erased**

Shortcut: Press **RCL** then press and hold **RCL** to access the Digital Message feature.

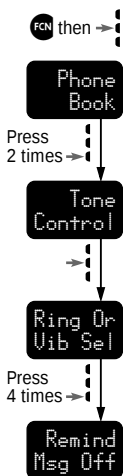
Activating the Digital Message Reminder

A tone notifies you when your Motorola cellular phone receives an incoming digital message. If your phone is set to vibrate using the VibraCall™ alert function (see “Setting Call Alert” on page 79), your phone vibrates to notify you of an incoming digital message.

If you are unable to immediately view a new message, you can set reminder tones or vibrations, which repeat every two minutes. These reminders are helpful in jogging your memory if you are either busy at the time when your digital message arrives or are temporarily away from your phone.

1. Follow the road map in the margin.
2. Press →| to toggle the feature on or off.

Note: The Digital Message Reminder feature is only available if your cellular service provider offers Digital Messaging Services. Contact your service provider for availability



Reference Information

Accessory Options

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

Batteries

Lithium Ion batteries are different from other batteries in that you can leave them in the charger. Nickel Metal Hydride batteries should not be left in the charger for more than 24 hours.

If your cellular phone is quickly becoming your companion, an optional auxiliary battery will give your phone a boost. Auxiliary batteries attach to the back of your phone and provide extra talk time in addition to your main battery.



Cigarette Lighter Adapter

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



Note: 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.

Desktop Charger (AC Adapter required)

The desktop charger is designed for optimal performance and compatibility with Motorola's new generation of cellular telephones. The desktop charger's front pocket can charge batteries while they are attached to your phone, and the rear pocket can charge batteries separately. Now it is easy to rotate batteries and always have a charged spare.



Holster

Your Motorola cellular phone is so small and light, it is positively wearable. Slip it in and clip it on—for the ultimate in high-tech fashion.



Note: The holster is designed for your convenience and is not meant to secure your phone under all circumstances.

Headset

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

When you use the headset, your phone automatically enables the Multiple Key Answer feature so you can answer calls with any key on the side of your phone. (See “Setting Multiple Key Answer” on page 104.) You can even use the Smart Button to end calls. (See “Using the Smart Button” on page 38.) You never need to open your phone to take a call.



PCMCIA Modems

These compact modems are made for mobility, with cable attachments that plug directly into the bottom of your Motorola cellular phone. They support fax, e-mail and data transmission. The PCMCIA modem works with data devices using a standard PCMCIA Type II slot.

Hands-Free Vehicle Kit

The optional Hands-Free Kit gives you the convenience of hands-free, speaker phone operation while in your car. Full duplex operation lets you simultaneously talk and listen, so both parties can interrupt each other for a normal sounding conversation. Other features include the ability to mute your stereo when making a call, and an auxiliary alert when you are away from the vehicle.

The Hands-Free Kit automatically powers your phone and charges its battery (even when your car's engine is turned off). The Hands-Free Kit also includes an external antenna that can improve your signal reception and boost performance.

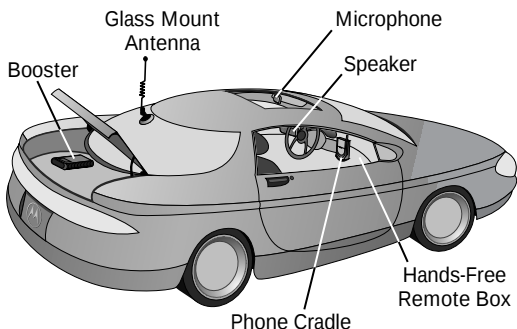
Note: Check the laws and regulations on the use of wireless telephones and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas.

3-Watt Vehicular Kit

This 3-Watt Vehicular Kit delivers a full 3 watts of power to increase performance, especially in fringe areas.

Vehicular Kit components:

- Hands-Free remote box
- External microphone
- External speaker
- Phone cradle
- Optional smart handset
- Optional 3-watt booster
- External antenna (not included)



Note: 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.

We recommend 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

- Q.** I pressed the Power key, but nothing happened. What is wrong with my phone?
- A.** Check that you have installed a battery and that the battery is charged. See “Battery Information” on pages 23-36 for more information on batteries for your Motorola cellular phone.
- Q.** My battery did not last as long as I expected. What can I do to extend battery life?
- A.** Keep in mind that your battery’s talk time and standby time are a relative measurement of the battery’s capacity. The more you talk on the phone, the less standby time you will have and vice versa.

To get the most from your battery, make sure it is fully charged. 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.

Certain features can demand power from your battery and reduce battery life. If you have selected the Auto Display Timer feature (see “Displaying the Individual Call Timer Automatically” on page 75), the display uses battery power to remain active during each call. Turn this feature off to conserve battery energy.

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 of thumb, always take your phone with you when you leave your car.

- Q.** Every time I turn on my phone it beeps and the display reads `Invalid Battery`. What is going on?
- A.** Your Motorola cellular phone implements the Motorola Expert Performance (E•P™) charging system. This system allows the charger that is built into the phone to communicate with the battery. Based on this communication, the charger can tailor the charging cycle to optimize performance. If your charging system is not communicating with the battery, your phone will beep and display the `Invalid Battery` message each time you power up the phone or replace the battery. Your phone is alerting you that you do not have charging capabilities with this battery.

There are several reasons why your battery might not be communicating. The most likely reason is that the battery you purchased is not a Motorola original battery and it does not have the appropriate communication technology built into it. All Motorola batteries are built with the appropriate communication technology. We recommend that you use Motorola original batteries and accessories and that you store your batteries in the protective battery cover that comes with the phone.

- Q.** The display says `Locked`. How do I unlock my phone?
- A.** Try entering the last three digits of your cellular number. If that does not work, try using the factory preset lock

code: 123. If all else fails, call your cellular service provider (the company that sends you your monthly cellular bill) for assistance. (See “Security Features” on page 81 for more information on your phone’s security features.)

Q. I tried to place a call and received a fast busy signal.

A. 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 Numbers” on page 42 for more information on redialing.)

Q. I tried to place a call and received an alternating high/low tone.

A. This sound means your call did not reach the cellular system. Most likely, you dialed the number too soon after turning the phone on. Wait until the red 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 move clear of any obstructions, like bridges, parking garages, tall buildings, etc.

Q. My phone started beeping and the display says: Cal | Ø1. What happened?

A. This sound means that someone tried to call you while you were in an area where the cellular signal was weak. Press **CLR** to clear your display, extend your phone’s

antenna and avoid obstructions like tunnels, parking garages and tall buildings whenever possible.

- Q.** I am in my home service area but the Roam indicator is flashing.
- A.** If your phone is programmed with more than one telephone number, you might not have switched to the number appropriate for your current location. Press , ,  to switch to your other number. (See “Using Two Cellular Phone Numbers” on page 95 for more information on multiple phone numbers.)
- Q.** I tried to read my Voice Mail (or use a paging service or a calling card) but nothing happened.
- A.** You have probably turned off the Scratchpad tones. Place your call, enter the access numbers when prompted by the recording, then press , . To avoid this problem in the future, see “Setting Scratchpad Tones” on page 80 for instructions on how to turn the Scratchpad tones on.
- Q.** I tried to place a calling card call using the internal Phone Book, but it did not work.
- A.** You may have turned off your Scratchpad tones. See “Setting Scratchpad Tones” on page 80 for instructions on how 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 over, enter your calling card

information again and store it in the same memory location as your previous attempt. See “Storing Calling Card Information” on page 64 for instructions on how to enter calling card information.

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.

- Q.** My phone was stolen. What should I report and to whom?
- A.** Report a stolen phone to the police and to your cellular service provider (the company that sends you your monthly cellular service bills).

Glossary

A

AC adapter An accessory device that allows 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 A socket on the bottom of the phone where you can attach accessories such as an AC adapter, battery charger, cigarette lighter adapter or data accessories.

air-time The amount of time you spend using a cellular system, between the time you successfully place a call and the termination of that call.

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

C

callback message A numeric message left by a caller, usually the caller's current phone number.

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

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

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

cellular system The cellular equipment in a given geographic area that relays signals to and from individual cellular telephones and the landline telephone system.

cigarette lighter adapter An accessory device that allows you to power your phone and charge any attached batteries from a car's cigarette lighter.

D

DTMF tones See Dual Tone Multi-Frequency tones.

default A feature's original setting as pre-programmed in the factory.

digital message See callback message.

Dual Tone Multi-Frequency tones The tones that your telephone transmits when you press a key on the keypad. These tones are used to access automated calling systems such as Voice Mail, paging services, and banking-by-phone systems. These tones will also be heard by the party on the other line if you use the Scratchpad while a call is in progress. Synonymous with Scratchpad tones.

F

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

function keys The seven keys in the top and bottom rows of your phone's keypad used to perform specific tasks.

H

home system The local cellular 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

indicator A light on your phone that gives you information about your phone's status.

icon A symbol at the bottom of the phone's display that corresponds to a main feature menu. See also main menu.

L

landline The telephone system used for conventional office and home phones.

Lithium Ion (LiIon) A battery technology used in personal cellular telephones. Lithium Ion batteries provide more energy capacity than Nickel Metal Hydride batteries of the same weight.

lock To prevent unauthorized access to the cellular telephone.

lock code A three-digit code used to unlock a locked phone.

M

memory location A space in the internal Phone Book where you can store a telephone number and a name. Each of the Phone Book's 99 memory locations (numbered 01-99) can hold up to 32 digits and 14 letters.

main menu The first level of the menu system hierarchy, which contains the six main feature menus: Phone Book, Call Timers, Tone Controls, Lock/Security, Phone Options, Digital Message.

menu feature Any feature that can be accessed through the menu system.

menu system The hierarchical arrangement of your phone's features that allows for quick, intuitive feature access.

modem An electronic device that allows a computer to send and receive data through a telephone line.

N

NAMPS (Narrow-Band AMPS) A high-capacity cellular technology, available in some areas, that operates on 2,412 channels. See also AMPS.

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.

non-wireline See system type.

Number Character A special character used in a calling card sequence to save a place for the telephone number you will call when you use your calling card.

P

PIN See Personal Identification Number.

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

Personal Identification Number (PIN) A private numeric “password” that allows you to access some cellular systems or automated systems such as telephone banking, while preventing unauthorized use.

prompt A message requesting input.

R

road map The visual representation of your phone’s menu system provided throughout this manual.

roam To use a cellular system outside of your home system, usually when you travel beyond the range of your home system.

S

Scratchpad A memory feature that automatically remembers the most recent number entered into the keypad.

Scratchpad tones The tones that your telephone transmits when you press a key on the keypad. These tones are used to access automated calling systems such as Voice Mail, paging services, banking-by-phone, etc. These tones will also be heard by the party on the other line if you use the Scratchpad while a call is in progress. Synonymous with Dual Tone Multi-Frequency tones.

scroll To move backward or forward through a list; for example: to move backward or forward through the menu system or the name directory using either the side volume keys or the  and  keys.

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

SID See System Identification.

signal See cellular signal.

Smart Button The middle key on the left side of your phone, used to access the Phone Book's name directory, send calls, end calls, enter the menu system, select features, and toggle features on and off. This manual uses the  symbol to indicate the Smart Button.

Speed Dial To use this feature, enter the two-digit location of your number, 01-99, then press and hold the Smart Button or press  and the call is placed.

standby time The length of time that your phone's battery typically retains power if your phone is left on but is not in use.

status indicator See indicator.

sub-menu 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 and an odd number indicates a non-wireline system. See also system type.

system mode A setting that determines the system type that your cellular phone will access.

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 length of time that your phone's battery typically retains power if your phone is in constant call use.

toggle To switch between two possible options; for example: on versus off.

Turbo Dial™ function To use this feature, press and hold a keypad number key 1 through 9 and your call is placed.

V

VoiceNote™ Recorder A feature which allows you to record incoming messages, voice memos or incoming portions of calls. This manual uses the  symbol to indicate the VoiceNote™ record button, located on the top of your phone by the antenna.

VOX See Voice Operated Transmission.

VibraCall™ alert function A silent vibration mode that discreetly alerts you to incoming calls.

Voice Operated Transmission A battery-saving feature that lets your phone reduce its power usage when you are not talking during a call. Not all cellular systems support this feature.

volume keys Located on the left side of your phone, the upper and lower volume keys are used to adjust ringer and keypad volume. They also scroll within the menu system and the name directory. This manual uses the  and  symbols to indicate the upper and lower volume keys respectively.

W

wireline See system type.

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- volume keys 21, 44
- volume, adjusting 44
- VOX. *See* voice operated transmission

W

- wireline
 - defined 95
 - home system type identifier 95
 - and system mode settings 97
 - See also* non-wireline

Patent Information

Manufactured under one or more of the following U.S. patents:

4121218	4602218	4730195	D305427	5029044
4138681	D284759	4734635	4896124	5029233
4193036	D285439	4736277	4897873	5031028
4254382	4616314	4737976	D305717	5036532
4302845	4617520	4740794	4904549	5053924
4312074	D286778	4741018	4905288	5057762
4327319	4626309	4741034	4905301	D320780
4329666	4628529	4742562	D306293	5059885
4369516	4629829	D295627	D306441	5060294
4369522	4630304	4746242	D306594	D322783
4378603	4630305	D295973	4912602	D322955
4390963	4633141	D295975	4918732	5081674
D269873	4636593	4751737	4922178	5083304
4398265	4636741	D296187	4945570	D324024
4400584	D288432	4761621	4954796	D324388
4400585	4648125	4764737	4959851	5095503
D270835	4649543	D297734	4963812	D325028
D271491	D288683	D297735	4963843	D325583
Re. 31470	4654655	4777564	4965537	5109536
4431977	D289156	Re. 32768	4972355	D325915
4434461	4662691	D299136	4972432	5113436
4455534	4667333	4797929	4972455	5117450
4462098	4668917	4798975	4975808	5121047
D275951	4670747	4800348	4984290	5122480
4484153	4672502	4802236	D314173	5122722
4485486	4680787	4809356	D315330	D327061
4486624	4681476	4811377	D315346	5128834
D276809	4683585	4811404	D315543	D328302
4491972	4692726	4827226	D315559	5142551
D277667	4704588	4827507	D315565	5142696
4504834	D292578	4829274	5004992	5146620
D278708	4706036	4837534	D315907	5148471
4523155	D292920	D301476	5008925	5148473
4546329	4710724	4843621	D316417	5148961
4550426	4711361	4845772	D316859	5150359
4551696	4715063	D302015	5017856	5150384
4564821	4716319	4851966	5018188	5152006
D282169	4716391	4868576	5020091	5157693
4571595	4723305	4870686	5020092	5163159
4573017	D294257	D303656	5020093	5164652
4574243	4727306	4876552	5028083	5166596
4585957	4727583	4879533	5028859	5175759

5175874	D340710	D354062	5475752	5546275
D332261	5260988	5384825	D365094	5546380
5182749	5261119	D356084	D365817	D372896
D332785	5262710	5402447	5486843	5551078
5185566	5263052	5406146	5487184	5559471
5187809	5276707	5406562	5488335	D374424
5193223	5278994	D357224	5488649	D374872
5195106	D343173	D357457	D366872	5572193
5195108	5280637	5410741	5493198	5574976
5201069	D344087	D357680	5493714	5577268
5204977	5287553	D357681	5497126	D375732
5210793	5287555	5428836	5497382	D375733
5214675	5287556	D359734	D367640	D375734
5222104	D344511	D359735	5499394	D375932
5222251	5301365	D359959	5506490	D375952
D337332	5321847	5432017	D368696	D376127
5230007	D348880	D360632	5510693	5588041
5230093	5349588	5438684	5511235	5589796
5233633	5359696	D361070	D369162	5590177
5235492	5361400	5442680	5513078	5594778
5237257	5363071	5446763	D369359	5594951
5239127	5365549	5448763	5519303	D377792
5241545	D352497	5448771	5519346	D377934
5241548	5366826	5453997	5524276	5604050
5241650	D353131	D362840	5524278	5606730
5241693	D353361	5457744	D370463	D378366
5242767	5375143	5459640	5530922	5613229
D339582	5375258	5463646	5542116	5613863
5249302	5379324	5465412	5544250	5615233
5251331	D354055	5469177	D372481	5621763

Other patents pending.