APPLICANT: MOTOROLA, INC. FCC ID: IHDT56ZF1

INSTRUCTION MANUAL

The following is a draft copy of the instruction manual.

TDMA StarTAC

Cellular Telephone

User Manual

Engineering Review—April 6, 1999

Welcome

All Motorola digital cellular phones are designed and manufactured to meet Motorola's rigorous specifications and world-class quality standards. During development, our laboratory testing team took the Digital StarTACTM 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 Digital StarTAC $^{\text{TM}}$ phone.

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Safety Information

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

Exposure to Radio Frequency Signals

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

In August 1996, The Federal Communications 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) IEEE. C95. 1-1992
- National Council on Radiation Protection and Measurement (NCRP) Report 86
- 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.

Tip on Efficient Operation

To operate your phone most efficiently, 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 and do not remove your battery when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions.

Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death.

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

For Vehicles Equipped with an Air Bag

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

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Overview

Package Content Options

Your Digital StarTAC™ cellular phone is typically packed with a transformer charger and at least one battery. Below is a sampling of the different package options.

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



Slim Main Battery with Battery



Digital StarTAC™ Cellular

Standard Main Battery with Battery





AC Adapter



Slim Auxiliary Battery



NEW Holster



Cigarette Lighter



NEW Desktop Charger (AC Adapter required)

Phone Overview

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

Antenna—Provides superior connectability. Does not extend.

Earpiece—Ultra-compact phone speaker.

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

Headset Jack—Provides the connection for an optional headset.

Microphone—Positioned for convenient conversation.

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.
- CIP—Clears characters from the screen.
- Ends phone calls.
- —Places or answers calls.
- and —Can be used to scroll through memory entries and menu features.
- Message Center Button—Allows access to digital messages, voice mail messages, and Caller Line ID.
- Smart Button—Use the Smart Button to recall information from memory, place and end calls, select menu features, and toggle features on and off. The symbol "* in your display represents the Smart Button.
- Volume Keys—The upper and lower volume keys can adjust keypad, earpiece, and ringer

volume. After pressing the Smart Button, the volume keys also scroll through memory entries and menu features.

Understanding the Guide

Key Presses

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



This means you should press followed by , and then , in sequence, not simultaneously.

Prompts and Messages

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

Short Cuts and Tips

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

Using the Battery

About Your Batteries

Your Digital StarTAC™ phone can use either Lithium Ion (Lilon) or Nickel Metal Hydride (NiMH) batteries. Batteries are available in these sizes: Slim, Standard, and Extra Capacity.

Your phone can use two batteries at the same time. You can use any single battery or battery combination to fit your needs. You can even extend your talk-time by attaching an auxiliary battery at any time, without interrupting your call.

All times are approximate and depend on network, signal strength, and the function selected.

Battery Talk-Time and Standby-Time

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

Notes:

- Talking on the phone uses more power than leaving it idle. The more power you use for talking, the less you'll have for standby-time, and vice-versa.
- For a complete measure of talk-time or standby-time, simply combine the time shown for your main battery to the time shown for your auxiliary battery.
- All times depend on the battery used, network configuration, signal strength, and the features selected.
- Your phone will operate more efficiently in Digital mode. If the Dicon is displayed, your phone's performance will be reflected in

the digital section of the table below. Otherwise, refer to the Analog section.

The following table shows ranges for battery talktimes and standby times.

	Digital		Analog		
Battery	Talk (up to)	Standby (up to)	Talk (up to)	Standby (up to)	
Slim Main LiION 500mAH					
Standard Main NiMH (500mAH	64 min.	78 hrs.	36 min.	21 hrs.	
Extra Capacity LiION 900 mAH	110 min.	135 hrs.	63 min.	36 hrs.	
Slim Auxil- iary LiION 900 mAH	220 min.	270 hrs.	126 min.	72 hrs.	

Storing and Disposing of Batteries

To prolong the life of your batteries, do not expose them to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your car.

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

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

Removing and Attaching Battery Covers

Your phone's batteries are shipped uncharged and fitted with protective covers. Before you install the batteries, remove these covers, and save them for storing unused batteries. The covers prevent metal objects from contacting the battery terminals, reducing the risk of injury or damage from a battery short circuit.

Removing the Main Battery Cover

- 1. Press and hold the release latch.
- **2.** Pull the battery upward, out of its



Attaching the Main Battery Cover

 Set the edge of the battery opposite the release latch into the cover.



2. Lower the release latch side of the battery into the cover until the latch clicks into place.

Removing the Auxiliary Battery Cover

 Hold the battery securely with one hand.



- **2.** With the thumb of your other hand, push the base of the cover upward.
- **3.** Continue pushing until the cover slides free of the pins on the bottom of the battery, and swing the cover away from the battery.

Attaching the Auxiliary Battery Cover

- 1. Slide the curved end of the cover onto the hook on top of the battery.
- 2. Push the cover firmly upward until the base of the cover slides past the battery pins; then release.



Installing and Removing Batteries

Installing a Main Battery

1. Set the edge of the battery opposite the release latch into the cover.



2. Press the release latch side of the battery into the cover until the latch clicks into place

Removing a Main Battery

- 1. Press and hold the release latch.
- 2. Pull the battery upward, out of the phone.

Installing an Auxiliary Battery

- 1. Place the hook on the battery into the slot on the back of the phone.
- 2. Pull the battery toward the bottom of the phone until the two pins click into place.



Removing an Auxiliary Battery

Slide the battery down until the two pins release from the base of the phone—then lift the battery off.



Checking Battery Levels

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 segments visible, the greater the charge.

For a detailed battery level reading:

Press For 4.

You will see one of the following:





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

Low Battery Warning

When the battery level is low and only a few minutes of talk-time remain, your phone signals you in three ways:

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

To confirm low battery signals:

Press For 4.



High



Low

Power Status Messages

You may also see one of the following messages:

Batt Auxiliary	Auxiliary and/or main batteries fitted; the phone is operating from the auxiliary battery.
Batt Main	Auxiliary and/or main batteries fitted; the phone is operating from the main battery.
Charging Auxiliary	Auxiliary and main batteries fitted; the auxiliary battery is being charged.
Charging Main	Auxiliary and/or main batteries fitted; the main battery is being charged.

Charging Batteries

Using the Internal Charger.

Your phone has a built-in battery charger. Using either the AC or cigarette lighter adapter, you can plug the handset directly into a power source to charge any attached batteries.

To charge:

- 1. Plug the AC adapter or cigarette lighter adapter into the accessory connector on the bottom of your phone as shown, with the release tab facing up.
- 2. Plug the power adapter into a 110V AC electrical outlet. A beep-tone sounds, and the battery icon flashes.

See "Charge Times" on page 23 for charge times.

Tip:

You can still place and answer calls while using either the internal charger or the cigarette lighter adapter. Remember that talking on the phone requires energy, so charging will take more time. To place the phone in charger-only mode, press

Pwr once.

Using the Desktop Charger

You can use the desktop charger to charge batteries while they are attached to your phone, or you can charge a main battery separately.

To charge <REPLACE GRAPHIC. PHONE AND BETTERY SHOULD BE ATTACHED>:



- Plug the AC adapter into the back of the charger, release tab facing up.
- 2. Plug the other end of the adapter into an AC wall socket.
- **3.** With battery(ies) attached, place the phone into the charger's pocket.

Notes:

- The detachable plug assembly included with your package can only be used for this power supply. Do not plug it into any wall outlet without the power supply.
- When the phone is charging, the battery level indicator will flash. When the battery is fully charged, this icon will stop flashing. If your phone cannot charge the battery, this indicator will not appear.

Desktop Charger Indicator Lights

Red—indicates that the battery is charging.

Flashing yellow—indicates that the battery is waiting its turn.

Green—means the battery is charged within approximately 90% of its capacity and can be used. Charging the battery for an additional hour brings it up to 100% capacity.

Flashing red—indicates that the battery is damaged and cannot be charged.

Tip:

If both a main and auxiliary battery are attached, the main battery is charged to 90% before the auxiliary is charged.

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 **f a**.

Note: If the battery cannot be charged and you press **10 4**, you will see Invalid Battery.

Tip: "batt" is printed on the key as a reminder.

Battery Charging Tips

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

- Always use Motorola approved battery chargers.
- For the best results, Li-lon batteries should be charged using the E•P™ Desktop Charger, or your phone's internal charger.
- The battery should be at or near room temperature when charging.
- When you don't intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- Do not leave a NiMH battery connected to any charger for longer than 24 hours.

A new NiMH battery may require several full charge/discharge cycles in order to achieve its optimum performance. After this initial charge, you can recharge your battery at your convenience, using the phone's rapid travel charger.

Quick Change Power Source ("Seamless Connection")

The quick change feature enables you to switch power sources while a call is in progress without losing the call. If you hear a low-battery warning while you are in a call, plug in the Cigarette Lighter Adapter or AC Adapter.

Charge Times

Locate your battery by type to see how long your battery takes to charge to a 95% power level:

Pottom Time	Charge Time (hrs)		
Battery Type	Internal Charger		
NiMH Main (500 mAH)	1.25		
Slim LiION Main (500 mAH)	2.5		
Extended LiON Main (900 mAH)	3.0		
LiION Auxiliary (900 mAH)	3.0		

After the battery reaches 95%, it begins to slow charge until it is fully charged. It is normal for batteries to become warm during charging.

Using the Phone

Turning the Phone On and Off

<NEW GRAPHIC WITH STUBBY ANTENNA>

- **1.** Open your phone to expose the keypad.
- Press and hold to turn the phone on. You will hear an audible alert.



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

What You Will See

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

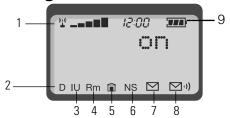
- your phone number
- the Digital or Analog icon
- one of several possible greetings, such as the name of your Service Provider

or

• an indication of local coverage area (Home System) or non-local coverage (Public Roam)

<ADD DISPLAY GRAPHIC, LIKE CDMA, PAGE 22-23>

Reading the Indicators



Signal Strength Indicator (1)

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

Digital Indicator (2)

If you are in a digital coverage area, the digital \square indicator flashes.

In Use Indicator (3)

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

Roam Indicator (4)

The Roam (Rm) Indicator lights when the phone accesses a cellular service outside your local system. When you leave your service area, your phone roams or seeks another cellular system until it finds one. If your phone finds another 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.

In-Building Indicator (5)

The In-Building Indicator () lights when the phone accesses an In-Building Cellular System or other non-public system.





No Service Indicator (6)

If you travel beyond the range of a cellular system, the No Service (NS) Indicator flashes to let you know that calls cannot be placed or received from your location.

SMS Message Waiting Indicator* (7)

The Short Message Service (SMS) Message Waiting Indicator (🖾) is displayed when the phone receives a message. The symbol flashes when your message storage area is full.

Voice Message Waiting Indicator*(8)

The Voice Message Waiting Indicator () is displayed when your Voicemail has received a message.

Battery Level Indicator (9)

The three bar segments on the Battery Level Indicator show the amount of charge remaining in your battery. The more segments you see, the greater the charge. The phone alerts you to a low charge in three ways:



- Low Battry appears on your screen.
- · A short tone plays periodically.

Tone Indicator

<ADD TEXT/NEW GRAPHICS FROM CDMA PG 25>

Power/Status Indicator

While wearing your phone in its holster or carrying it, you can check the Power/Status indicator on top of the phone for status information on your current type of service and message status. The messages can include voice mails and Short Message Services (SMS) messages, or the receipt of recent calls.

*Network- and subscription-dependent feature. May not be available in all areas.



High



Low



During wake-up and while the phone is "ringing," the Power/Status Indicator flashes alternating red and green. Otherwise, if the flip is closed and the Power Save Mode is set to Off, then the Power/ Status Indicator flashes according to the following chart. (See "Selecting Battery Options—Power Save Mode" on page 88 for information on the Power Save Mode.)

Service	ervice Condition		Second Flash
Service in	No message		Green
home system	Message waiting	Green	Red
Roaming	No message		Yellow
(service in non-home system)	Message waiting	Yellow	Red
	No message		Off
No service	Message waiting	Red	Red

Note: The Power/Status Indicator is Off when the phone is in charger-only mode.

Standby Mode

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

Holding Your 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.

Storing Your Phone in Its Holster

To slip your phone into its holster, make sure the main battery is facing the inside of the holster. Then clip the holster onto a belt, purse or briefcase.

Placing a Call

To place a call:

- 1. Press and hold to turn you phone on.
- 2. Enter the number you want to call.
 - Press to erase one digit at a time if you make a mistake.
 - Press and hold to clear the entire entry.
- 3. Press and hold in until you hear a second tone.

or

Press send to place the call.

You will hear a two-tone alert and see $\[\]$ ing XXXXXXX.

You can dial phone numbers with up to 32 digits, but only the last 20 digits appear in the display.

Press Ro to see the entire phone number.

Ending a Call

To end a call:

Press end or close the phone.

or

1. Press and hold
until you hear a second

You will see * To End Call.

2. Press - again to end the call.

Viewing Your Own Number

To find out your phone's number:

Press RD #D.

Receiving a Call

Your phone must be powered on to receive calls.

To answer a call:

Press or open the phone when the phone rings. Press or open the phone when the phone rings.

Note: Opening the phone will not answer the call if the Open to Answer feature is off. (See "Activating Open to Answer" on page 86.)

Unanswered Call Indicator

When you cannot take a call, your Digital StarTACTM keeps a count of your unanswered calls and alerts you with the message Call XX Unanswered, where XX is the number of missed calls.

Press **©** or **©** to erase the message, and you can begin placing calls again.

Ringer Suppress

You can terminate either the ring or the vibrate indicator by pressing either of the volume keys during the ring/vibrate cycle. The caller will continue to hear a ring until voice mail answers.

Switching Between Digital and Analog Modes

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

To switch modes, press **60 2**

Your Digital StarTAC™ will select the TDMA 800 or TDMA 1.9 band digital system, depending upon availability, or the AMPS 800 band analog system.

Using the Smart Button

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

The symbol "#" in your display represents the Smart Button.

Selecting Items in the Display

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

Toggling Features On and Off

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

Entering the Menu System

Press o, then press to access the menu. You will see Phone Book

Placing a Call

1. Enter the number you want to call.

You can also recall a previously dialed or stored number. (See "Using Memory" on page 28 for details on storing or recalling.)

2. Press and hold of to place the call. You will see Dialing XXXXXX.

Ending a Call

- 1. Press and hold of until you hear a second tone. You will see To End Call.
- 2. Press again to end the call.



Redialing a Number

Automatic Redial

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

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

If you hear a fast busy signal:

- 1. Press → or press . You will see Press 5MD to Redial.
- 2. Press end to redial.

If the call does not go through after four minutes:

Press , or press to continue the call attempt.

If you hear an ordinary busy signal:

- 1. Press to hang up.
- 2. Press or press to redial the busy number.

You will see Dialing 5551234.

Displaying the Last Twenty Numbers Dialed

Use this feature to call any one of the last twenty numbers you've dialed.

1. Press **©** ••••.

The display will show the last number dialed.

2. Press to scroll through the last twenty numbers, starting with the most recent call.

3. Press and hold or press to call the number in your display. You will see Dialing 5551234.

Controlling Volume

Adjusting Volume

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

To adjust earpiece and keypad volume during a phone call:

Press - to raise or lower the volume.

To adjust the ringer volume while not in a phone call

Press - to raise or lower the volume.

Muting the Microphone

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

- 1. Press to mute the microphone. You will see Mute.
- 2. Press again to resume normal conversation.

Selecting Silent Vibration Mode

In situations where you don't want your phone to ring, or in noisy places where you may not hear your phone, select the VibraCallTM Alert function for discrete vibration:

Press to toggle between ringer and vibration mode. You will see <code>Uibrate Only</code> or <code>Ring only</code>.

Refer to "Using Call Alert Tones" on page 63 for more details.

Using Memory

Use your Digital StarTAC[™] phone's internal Phone Book to store up to 99 names and numbers for easy access.

In this chapter you will learn how to:

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

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



If you are already familiar with previous Motorola cellular phones, you can use your phone's
and because to scroll through the menu system.

Using Your Phone's Built-in Phone Book

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

Arrange numbers for easy recall by storing related numbers in groups. If you store the numbers you call most in locations 01-09, then you can use Turbo DialTM to call those numbers with a single key. (See "Using Turbo DialTM" on page 37 for details.)

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

"Phone Book" on page 42 tells how you to use the Phone Book menu to enter and retrieve numbers, place calling card calls, and access other automated calling systems with the touch of a button.

Storing Names and Numbers

How to Store Phone Numbers

- 1. Enter the phone number you want to store.
- 2. Press sto to begin storing.

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

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

or

Press to store the sequence in the first available location.

or

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

- **4.** Enter a name to identify the phone number. (See the following section for details on entering names.) You will see Alpha Or *.
- 5. Press or when you finish entering the name.

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

How to Enter Letters and Numbers

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



press 1 time to insert an "A"

press 2 times to insert a "B"

press **3** times to insert a "**C**"

press ${\bf 4}$ times to insert a " ${\bf 2}$ "

How to Enter a Name

 Enter a letter by pressing a key as many times as necessary. Enter punctuation by pressing as many times as indicated by the chart below. <REFINE PUNCTUATION>

2	3	4	5	6	7	8	9	10
1	7	L	,	0.0	\$		8.	-

The cursor will advance automatically to the next space after you enter a letter. If you are repeating a character, then press to advance the cursor to the next space.

- 2. Press or to erase a letter if you make an error.
- 3. Press or so when you finish entering the name.

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

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

Tip:

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

Recalling an Entry by Name

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

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

or

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

No AFS is displayed.

- **3.** Press two times if you want to see the number stored with the name.
- **4.** Press and hold , or press , to call the number you selected.

Recalling an Entry by Memory Location

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

- 1. Press RC.
- **2.** Enter the two-digit memory location of the phone number you want.
- 3. Press and hold →, or press to call the number you selected.

Clearing a Memory Entry

Clearing an Entry by Name

- 1. Recall by name the entry that you want to erase. (See "Recalling an Entry by Name" on page 36.)
- 2. Press © to clear the entry.

You will see Clear?.

3. Press to confirm that you want to erase the entry.

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

Clearing an Entry by Location Number

- **1.** Press **(r)** to clear the entry.
- 2. Press and the location you want to clear.

 You will see \text{X Full Change?}
- 3. Press to confirm that you want to erase the entry.

Shortcuts for Recalling Phone Book Entries

Using Super Speed Dial

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

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

Using Turbo Dial™

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

Press and hold a number through on the keypad, and your call is placed. You will hear a two-tone alert afterwards.

Your phone's Priority Call feature gives you fast access to any number stored in location 01. To learn how to activate this feature, see "Activating Priority Calling" on page 71.

Making Notes on the Scratchpad

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

Entering a Number in the Scratchpad

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

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

Storing Numbers During a Call

You can also store numbers during a call:

- Enter the number into the keypad. (The person on the line can hear tones as you dial.)
- 2. Press and continue storing with step 3 in "Storing Names and Numbers" on page 34.

Using the Menu System

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

In this chapter you will learn:

- how to navigate through the menus
- how to read a roadmap

Navigating the Menu

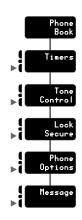
You can navigate through the menu system using the three keys located on the left side of the phone. Use the upper and lower volume keys to scroll to sub-menus and to control volume. Use the middle Smart Button to choose menus and functions.

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



If you are already familiar with previous Motorola cellular phones, you can use your phone's Amand keys to scroll through the menu system.

Tip: You can also access the menu by pressing pressing menu" is printed on the key as a reminder.



Road Maps

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

- 1. Press ♠, then press → to enter the menu features.
- 2. Press to scroll through the menu's top level, shown here in the margin.
- 3. Press to exit the menu.

Detailed instructions within each chapter describe how each feature works.

<DELETE MESSAGE BOX FROM GRAPHIC FOR
ZEPPO>

 $<\!\!$ ADD SECTION ON SOFT ICONS FOR MENU LIST. SEE CDMA MANUAL, PG 56>

Managing the Phone Book

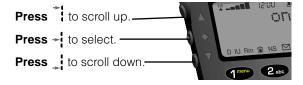
This chapter tells you how to access features using your phone's convenient menu system. You will also learn about advanced storing features that help you use calling cards and access automated calling systems.

ADD SOFT ICON

In this chapter you will learn how to:

- recall and store phone numbers using the menu system
- · store numbers with pause dialing
- store calling card sequences for easy access
- edit your memory information
- · view your own phone number
- adjust the information on the display

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



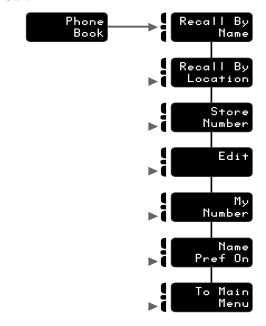
If you are already familiar with previous Motorola cellular phones, you can use your phone's
And keys to scroll through the menu system.

<DELETE TIME FROM GRAPHIC>

Road Map for Phone Book

Press , then press to enter the menu system.

Start:



Getting to Phone Book...

- 1. Press , then press to enter the menu system.
- 2. Press of to scroll to Phone Book and press of to select.
- 3. Press or to scroll to the following features, and press to select.

Recalling an Entry by Name

To recall a stored name with the Phone Book menu:

- Follow the steps in the "Getting to Phone Book..." block above to select Recall By Name. You will see Enter 1st Letter.
- 2. Enter the first letter of the name you want to recall. The display shows the first name in the phone book that begins with that letter. If no entry beginning with that letter is found, No here is displayed.
- 3. Press to scroll to the name you want.
- **4.** Press two times if you want to see the number stored with the name.
- 5. Press and hold -, or press to call the number you selected.

Recalling an Entry by Location

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

- Follow the steps in the "Getting to Phone Book..." block above to select Recall By Location. You will see Location —.
- **2.** Enter the two-digit memory location of the number you want.

Tip: You can also recall phone numbers without using the Phone Book. See "Recalling an Entry by Name" on page 36 or "Recalling an Entry by Memory Location" on page 36.

3. Press and hold -, or press on, to call the number you selected.

Storing with the Menu

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

- 1. Follow the steps in the "Getting to Phone Book..." block to select Store Number. You will see Enter Mumber.
- 2. Enter the phone number you want to store. See "How to Enter Letters and Numbers" on page 35.
- 3. Press when you finish entering the number.

You will see Location —.

4. Press **1** to store the sequence in the next available location.

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

or

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

- 5. Enter a name to identify the phone number, or skip this step and continue with step 6. (See "How to Enter a Name" on page 35 for details on entering names.)
- **6.** Press , or press , when you finish entering the name. Your phone confirms your entry by displaying the location, number, and name you stored. Proceed with step 7 below, or return to step 2 above to store more numbers.
- 7. Press to exit the menu.

Tip:

You will see Alpha Or *. If the chosen location is full, press end and restart the storing sequence.

Getting to Phone Book...

- 1. Press , then press to enter the menu system.
- 2. Press or to scroll to Phone Book and press > to select.
- 3. Press to scroll to the following features, and press to select.

Storing and Placing Numbers With Pause Dialing

Entering a Pause in a Number

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

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

- 1. Follow the steps in the "Getting to Phone Book..." block above to select Store Number. You will see Enter Number.
- **2.** Enter the phone number you use to access the automated system.
- 3. Press 📵, then press 🐿.

You will see Insert Pause o.

- **4.** Press → to insert a pause (□) into the sequence.
- **5.** Enter the next group of numbers (such as an account number or PIN number.)
- **6.** Enter any other required symbols (such as * or #).

7. Insert another pause, and enter the next group of numbers by repeating steps 3 through 5as many times as necessary.

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

8. Press Sto to begin storing.

You will see Location —.

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

You will see Alpha Or *.

10. Enter a name for your sequence.

(See "How to Enter a Name" on page 35 for details on entering names.)

11. Press - when you finish entering the name.

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

Placing a Call with Pauses

To use your stored sequence:

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

Getting to Phone Book...

- 1. Press , then press to enter the menu system.
- 2. Press or to scroll to Phone Book and press to select.
- 3. Press of to scroll to the following features, and press of to select

Storing and Placing Numbers for Calling Card Information

Storing Calling Card Information

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

See "Using Lock/Security Features" on page 67 for more information on protecting your calling card information.

- Follow the steps in the "Getting to Phone Book..." block above to select Store Number. You will see Enter Number.
- **2.** Enter the phone number you use to access your calling card system. (Skip this step if you only dial 0.)
- 3. Press For Send. You will see Insert Pause o.
- **4.** Press → to insert a pause (∘) into the sequence.
- **5.** Enter the next numbers, if needed. (For example, some long distance carriers require you to dial a 0 first. If no further numbers are needed, skip to step 7.)
- 6. Press For Send

- 7. Press to scroll to the Number Character. You will see Insert Number 'N.
- 8. Press → to insert the 'N Character.

This special character saves a place for the phone number you will be calling. The number is inserted automatically when you place the call.

- 9. Press For Send.
- **10.** Press to insert another pause, as in steps 3 and 4.
- 11. Enter your calling card PIN number.
- **12.** Press to store your calling card sequence.

You will see Location —.

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

You will see Alpha Or *.

- **14.** Enter a name for your sequence. (See "How to Enter a Name" on page 35 for details on entering names.)
- **15.** Press when you are finished entering the name.

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

Placing a Calling Card Call

To recall your stored calling card information:

Recall the calling card information you stored.

(See "Recalling an Entry by Name" and "Recalling an Entry by Location" on page 43 for more information on Recalling Numbers.)

2. Press before entering the number. You will see Enter Number.

3. Enter the phone number you want to call, including the area code.

Enter the number manually, by location, or recall.

4. Press and hold →, or press , to place the call

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

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

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

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

Getting to Phone Book...

- 1. Press , then press to enter the menu system.
- 2. Press or to scroll to Phone Book and press > to select.
- 3. Press to scroll to the following features, and press to select.

Editing a Memory Location

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

- **1.** Follow the steps in the "Getting to Phone Book..." block above to select Edi+.
- 2. Recall the entry by location or by name.
 - (See "Recalling an Entry by Name" and "Recalling an Entry by Location" on page 43.)
- 3. Press to begin editing the phone number.
 - The display shows the name briefly, then the phone number.
- **4.** Press **()** to erase one digit at a time.
 - Press and hold **t**o erase the entire number.
- **5.** Enter your changes to the phone number.
- **6.** Press when you finish editing the phone number.
 - The display shows the location where your number is currently stored.
- 7. Press to erase the memory location, then enter a new two-digit location.

or

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

The display shows the name stored with the phone number you are editing.

8. Enter your changes to the name. (See "How to Enter a Name" on page 35.)

Press to erase one letter at a time, or skip to step 9 to leave the name unchanged.

- 9. Press when you finish editing the name. The display shows the new information.
- **10.** Press to save your changes.

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

or

Press **t** leave the information unchanged.

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

11. Press **t** to exit, or scroll to other features.

Getting to Phone Book...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Phone Book and press to select.
- 3. Press or to scroll to the following features, and press to select.

Viewing Your Own Number

Use this feature to view your phone's currently active phone number. If you have more than one phone number, you can change the active number with the Change Number feature in the Phone Options menu. (See "Switching Between Numbers" on page 82.)

- 1. Follow the steps in the "Getting to Phone Book..." block above to select My Number.
- 2. Press to view your own phone number.

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

Shortcut:

Press **(III)** #> for a quick look at your phone number.

Phone Book Display Preferences

The Name Preference feature determines the order in which the Phone Book displays information. When you recall information by location and this feature is:

Off—You see the stored phone number first and must press to see the associated name.

On—You see the stored name first and must press \bigcirc to see the associated phone number.

To turn this feature on or off:

 Follow the steps in the "Getting to Phone Book..." block to select the Name Preference feature.

You will see Name Pref On or Name Pref

- 2. Press to toggle between Name Pref On and Name Pref Off.
- 3. Press to exit, or scroll to other features.

You should set Name Preference to Name Pref On if you subscribe to Caller ID, so that you can see the name of the person who is calling. See "Using Caller ID" on page 97.

Shortcut:

Press of, the Smart Button, and continue with step 2.

Timing Your Calls

ADD SOFT ICON

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

In this chapter you will learn how to:

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

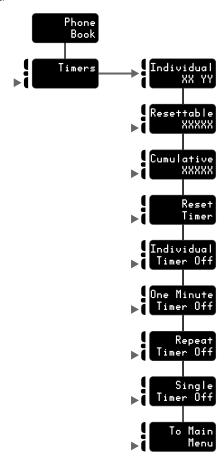
Follow these symbols as a guide for using the keys on the side of your phone:



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

Road Map for Call Timers

Start:



Getting to Call Timers...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Timers and press to select.
- 3. Press to scroll to the following features, and press to select.

Shortcut 1:

Press (#) #>
twice for a
quick look at
this timer.

Shortcut 2:

Press , the Smart Button,

5 for a quick look at this timer.

Viewing the Individual Call Timer

You can view the air-time of the most recent call or the call in progress (in minutes and seconds) at any time using this feature. The Individual Call Timer resets when you place the next call and when you turn the phone off. You can also choose to have the timer display while calls are in progress. See "Displaying the Individual Timer Automatically" on page 58.

- 1. Follow the steps in the "Getting to Call Timers..." block above to select Individual XX YY. The display will show the air-time of your last call in minutes (XX) and seconds (YY).
- 2. Press to exit, or scroll to other features.

Viewing the Resettable Call Timer

Shortcut 1: Press (#) three times for a quick look at this timer. You can track how much air time you have accumulated at any time. Use this feature to view the time elapsed, and follow the instructions in "Resetting the Timer" on page 57 to reset the timer.

- 1. Follow the steps in the "Getting to Call Timers..." block above to select Resettable XXXXX. The display shows your air time in minutes since you last reset the timer.
- 2. Press to exit, or scroll to other features.

Viewing the Cumulative Timer

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

- 1. Follow the steps in the "Getting to Call Timers..." block to select Cumulative XXXXX. The display will show your air time in minutes since your phone was activated.
- 2. Press to exit, or scroll to other features.

Resetting the Timer

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

- Follow the steps in the "Getting to Call Timers..." block to select Individual XX YY.
- 2. Press _ to scroll to Reset Timer.
- 3. Press to reset the timer.
- **4.** Press to exit, or scroll to other features.

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

Shortcut 2:

Press for 4

6 for a quick look at this timer.

Shortcut 1:

Press #>
four times for a
quick look at
this timer.

Shortcut 2:

Press , the Smart Button,

for a quick look at this timer.

Shortcut 1:

Press of, the Smart Button,

and continue with step 3.

Shortcut 2:

Press to to reset the timer.
You will see
Reset Timer.

Getting to Call Timers...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Timers and press to select.
- 3. Press to scroll to the following features, and press to select.

Shortcut:

Press , the Smart Button,

4 8 and continue with step 2.

Tip:

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

Shortcut:

Press , the Smart Button,

4 4 and continue with step 2.

Displaying the Individual Timer Automatically

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

- 1. Follow the steps in the "Getting to Call Timers..." block to select Individual Timer. You will see Individual Timer Off or Individual Timer On.
- Press → to toggle between Individual Timer Off and Individual Timer On.
- **3.** Press to exit, or scroll to other features.

Setting the One-Minute Audible Timer

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

- 1. Follow the steps in the "Getting to Call Timers..." block to select One Minute Timer. You will see One Minute Timer Off or One Minute Timer On.
- 2. Press → to toggle between One Minute Timer Off and One Minute Timer On.
- **3.** Press to exit, or scroll to other features.

Setting the Repeating Audible Timer

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

- 1. Follow the steps in the "Getting to Call Timers..." block to select Repeat Timer. You will see Repeat Timer Off or Repeat Timer
- 2. Press → to toggle between Repeat Timer Off and Repeat Timer On.

The prompt to enter seconds appears **only** if you have turned the feature on. If you have turned it off, you will see Repeat Timer Off.

- Enter the number of seconds you would like between audible beeps. You will see Beep At YYY Secs.
- 4. Press to set the timer. The phone confirms the setting by displaying Set At YYY Secs.
- **5.** Press to exit, or scroll to other features.

Setting the Single Timer

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

1. Follow the steps in the "Getting to Call Timers..." block to select Single Timer. You will see Single Timer Off or Single Timer On.

Shortcut:
Press (a), the
Smart Button,
(4) (1) and

continue with step 2.

Shortcut:

Press Fin, the Smart Button,

and and continue with step 2.

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

Adjusting Tone Controls

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

ADD SOFT ICON

In this chapter you will learn how to:

- activate and deactivate the VibraCall[™] Alert function
- choose from nine different ringer styles
- silence the keypad
- · silence the scratchpad
- select the distinctive ringer feature

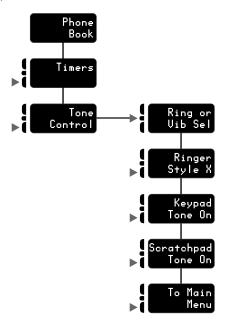
Follow these symbols as a guide for using the keys on the side of your phone:



If you are already familiar with previous Motorola cellular phones, you can use your phone's Amand keys to scroll through the menu system.

Road Map for Tone Controls

Start:



REPLACE WITH NEW MENU:

Call Alert

Tone

Msg Alert

Tone

Distinct

Ring Tone

Ringer

Style X

WHAT'S THE DIFFERENCE BETWEEN THE LAST TWO ITEMS?

Getting to Tone Controls...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Tone Control and press to select.
- 3. Press to scroll to the following features, and press to select.

Using Call Alert Tones

Using this feature, you can choose to be alerted to incoming calls using the vibrating ringer, the ringer, both, or neither.

In particular, the VibraCallTM Alert vibrating ringer is ideal for situations where ringing may not be appropriate, or in noisy places where you might not hear the ringer.

- 1. Follow the steps in the "Getting to Tone Controls..." block above to select Call Alert Tones. The display shows your current ringer setting.
- 2. Press to scroll through your choices:
 Ring, Vibrate, Ringer and Vib, and Silent.

When both the ringer and vibrator are on, the phone alerts you by vibrating for three ring cycles and then ringing.

- 3. Press when you reach the setting you want.
- **4.** Press **to** exit, or scroll to other features.

<DESCRIBE SOFT ICONS FOR TONE MODE.</p>
REFER TO "READING THE INDICATORS.">

Shortcut 1:

Press of 8
to toggle the
VibraCallTM
Alert function
on and off.

Shortcut 2:

Press , the Smart Button,

(3) (0), and continue with step 2.

Shortcut 3:

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

Selecting a Ringer Style

Your phone lets you select any of nine different ringer styles. After you choose a style, the phone give you a brief sample of the new ringer style, or vibrates if you have selected the VibraCall™ Alert feature.

<ACCORDING TO THE NEW MENU STRUCTURE, SHOULDN'T THIS BE "RINGER STYLE X" AND NOT BE UNDER CALL ALERT TONES?>

- 1. Follow the steps in the "Getting to Tone Controls..." block to select Call Alent Tones. Then select Ringer Style. You will hear a sample of your current ringer style, and you will see Select 1-9.
- 2. Press through to hear the different ringer styles, or scroll through the ringer styles.
- Press when you reach the ringer style you want.
- **4.** Press **to** exit, or scroll to other features.

Using Message Alert Tones

Using this feature, you can choose to be alert to incoming voice mails and short messages using the vibrating ringer, beeping, or neither.

- 1. Follow the steps in the "Getting to Tone Controls..." block to select Message Allert Tones. The display shows your current beeping setting.
- 2. Press to scroll through your choices:
 Beep, Vibrate, and Silent.
- 3. Press when you reach the setting you want.
- **4.** Press **to** exit, or scroll to other features.

Getting to Tone Controls...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Tone Control and press to select.
- 3. Press to scroll to the following features, and press to select

Turning Keypad Tones On and Off

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.

<DOES THIS STILL EXIST? WHAT IS THE MENU
OPTION?>

Note: The other party will still hear tones.

- Follow the steps in the "Getting to Tone Controls..." block to select Keypad Tone. You will see Keypad Tone On or Keypad Tone Off.
- 2. Press to toggle between Keypad Tone On and Keypad Tone Off.
- **3.** Press **to** exit, or scroll to other features.

Turning Scratchpad Tones On and Off

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

<DOES THIS STILL EXIST? WHAT IS THE MENU OPTION?>

Shortcut:

Press , then the Smart Button, 3

continue with step 2.

Shortcut: Press , the Smart Button, 3 3, and continue with step 2.

- 1. Follow the steps in the "Getting to Tone Controls..." block to select Scratchpad Tone. You will see Scratchpad Tone On or Scratchpad Tone Off.
- 2. Press → to toggle between Scratchpad Tone On and Scratchpad Tone Off.
- **3.** Press **60** to exit, or scroll to other features.

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

Press RCD Send to send the tones.

Using Lock/Security Features

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

NEW SOFT ICON

In this chapter you will learn how to:

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

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

Press to scroll up.

Press - to select.

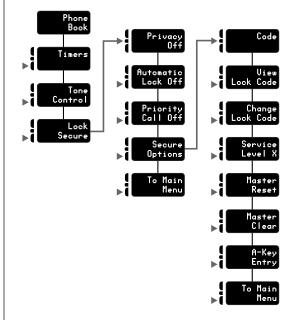
Press to scroll down.

| 1 | 2 abc

If you are already familiar with previous Motorola cellular phones, you can use your phone's Amand keys to scroll through the menu system.

Road Map for Lock Security

Start:



Getting to Lock Security...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Tone Control and press to select.
- 3. Press to scroll to the following features, and press to select.

Activating Voice Privacy

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

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

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

To turn the Voice Privacy feature on or off:

- 1. Follow the steps in the "Getting to Lock/ Security..." block above to select Voice Privacy. You will see Privacy Off or Privacy Preferred.
- 2. Press to toggle between Privacy Off and Privacy Preferred.
- **3.** Press **to** exit, or scroll to other features.

Locking/Unlocking Your Phone

Locking Your Phone Automatically

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

- Follow the steps in the "Getting to Lock/ Security..." block to select Automatic Lock. You will see Automatic Lock Off or Automatic Lock On.
- 2. Press + to toggle between Automatic Lock Off and Automatic Lock On.
- 3. Press to exit, or scroll to other features.

Locking Your Phone Manually

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

- 1. Press 🕼.
- 2. Press and hold 5 for at least one full second. You will see Look?.
- 3. Press so or → to lock. You will see Locked.

Unlocking Your Phone

To unlock your phone:

Once your phone is on, **enter your three-digit lock code** to unlock your phone. (See "Viewing the Lock Code" on page 72 and "Changing the Lock Code" on page 72 for more information on your lock code.)

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

Answering Calls While the Phone Is Locked

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

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

Activating Priority Calling

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

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

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

- 1. Follow the steps in the "Getting to Lock/ Security..." block on the previous page to select Priority Call. You will see Priority Call Off or Priority Call On.
- 2. Press to toggle between Priority Call
 Off and Priority Call On.
- **3.** Press to exit, or scroll to other features.

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

Shortcut:
Press (c), the
Smart Button,
(2) (9), and

continue with step 2.

Getting to Security Options...

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

Managing Security Options

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

Viewing the Lock Code

To display the active three-digit lock code:

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

Changing the Lock Code

To change your three-digit lock code:

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

Shortcut:

Press **©**, the Smart Button, **5 5** and continue with step 2.

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

Restricting Call Placement

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

Selecting a Service Level

- 1. Follow the steps in the "Getting to Security Options..." block to select Service Level. The phone displays your current service level. Refer to the chart on the next page.
- 2. Press to scroll through the service level settings, and press to select the service level you want.

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

Enter the range of digits memory locations from which calls will be allowed. The phone confirms the allowed range, and you will see 1-XX Allowed.

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

Service Level Settings

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

Level	Description	Display		
1	Calls can be placed from memory locations 1-10 only. No dialing from keypad No memory edit or storage No access to name directory No access to last number dialed	1 Memory 1-10		
2	 Calls can be placed from all memory locations. No dialing from keypad No memory edit or storage No access to Caller ID stack 	2 Memory Only		
3	Calls can be placed manually from the keypad only. No access to memory information No memory edit or storage No access to Caller ID stack	3 Keypad Only		
4	Standard setting, no restrictions	4 Standard Setting		
5	Seven-digit (local) dialing only	5 Local Only		
6	Calls can be placed from the keypad and from memory. No edit or memory storage to memory locations 1-10 Memory cannot be changed.	6 No Store 1–10		

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

Getting to Security Options...

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

Resetting All Options

Use the Master Reset feature to reset all userselectable options back to their original factory settings.

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

- Follow the steps in the "Getting to Security Options..." block above to select Master Reset.
- 2. Press if you want to reset all your phone's options back to their factory settings. You will see Standard Setting.

or

Press to exit the menu if you do not want to reset your phone's options.

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

Clearing All Stored Information

If you want to start over, use Master Clear to reset all user-selectable options, clear the resettable timer, and erase all Phone Book information. **Note:** Once you select this feature, the process cannot be canceled or reversed.

- 1. Follow the steps in the "Getting to Security Options..." block to select Master Clear.
- Press to clear the memory and reset all your phone's options back to their factory settings. You will see Busy. (This takes a few seconds.)

or

Press to exit the menu if you do not want to reset your phone's options.

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

Authenticating Users

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

Note: This feature should only be programmed once.

 Follow the steps in the "Getting to Security Options..." block to select A-Key Entry. The display will show the phone's active phone number.

If the number displayed is not the number you want for the A-Key, press of to switch to the second programmed number. Your phone will use this number once you exit this feature.

2. Press → to select.

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

Shortcut:
Press , the
Smart Button,
2 , and
continue with
step 2.

- 3. Press or to validate the A-Key entry.
 - If you input the A-Key correctly, you will see Ualid.
 - If you input the A-key input incorrectly, you will see Invalid. Re-enter your A-Key.
- **4.** Press to exit, or scroll to other features.

Customizing Phone Features

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

NEW SOFT ICON

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

In this chapter you will learn how to:

- switch among dual, analog, or digital mode
- switch cellular phone numbers
- select the type of cellular system
- review your phone's feature settings
- block incoming calls
- · select features for vehicular use
- · conserve battery power
- · view numbers with Caller ID
- display your system identification
- select a language

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

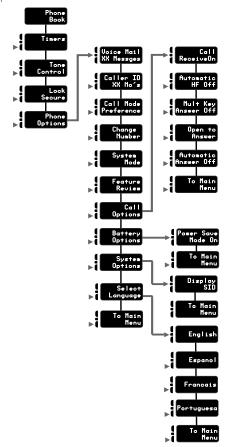


If you are already familiar with previous Motorola cellular phones, you can use your phone's ** and *** keys to scroll through the menu system.

Road Map for Phone Options

Press , then press to enter the menu system. <MODIFY. DELETE MESSAGE CENTER ITEMS, LIKE VOICE MAIL.>

Start:



Getting to Phone Options...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Phone Options and press to select.
- **3. Press** to scroll to the following features

Selecting Call Mode Preference

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

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

Note: When powered on, your Digital StarTACTM cellular phone will first search for a digital channel. If no digital channel is available, your phone will switch to an analog channel.

- Follow the steps in the "Getting to Phone Options..." block to select Call Mode Preference.
- 2. Press to toggle among Dual, Analog, or Digital modes.
- Press to select a Dual, Analog, or Digital channel. You will see Dual Mode, Analog Mode, or Digital Mode.
- **4.** Press to exit, or scroll to other features.

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

Tip: If this feature is selected during a call, the feature will be effective with the next call. Press to switch between digital and analog mode.

Switching Between Numbers

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

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

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

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

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

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

To switch your phone number:

- 1. Follow the steps in the "Getting to Phone Options..." block to select Change Mumber. The active phone number will appear in the display (for example, 5155551515).
- 2. Press to switch to your other phone number (for example, 7885551212).
- **3.** Press → to confirm the new setting.
- **4.** Press to exit, or scroll to other features.

Getting to Phone Options...

- 1. Press on, then press to enter the menu system.
- 2. Press to scroll to Phone Options and press to select.
- **3. Press** to scroll to the following features

Selecting a Cellular System

Your Service Provider configures the System Mode feature when you receive a cellular phone number. Use this feature to select the type of cellular system your phone will access.

- 1. Follow the steps in the "Getting to Phone Options..." block to select System Mode.
- **1.** Press to scroll through the mode settings:

Standard Mode — Your phone first seeks a home type system, then a non-home type system	
If home is non-wireline (type A)	Std AB
If home is wireline (type B)	Std BA
Reversed Preference Mode—Your phone first seeks a non-home type system, then a home type system. (May be useful in fringe areas or certain roaming situations)	
If home is non-wireline (type A)	Scan BA
If home is wireline (type B)	Scan AB
Home Only Mode—The phone will not operate outside its home system.	Home
Scan A Mode—The phone will operate only within nonwireline (type A) systems.	Scan A
Scan B Mode—The phone will operate only within wireline (type B) systems.	Scan B

Shortcut 1: Press Rd TX, and continue with step 3.

Shortcut 2: Press , the Smart Button, 2 3, and continue with step 2.

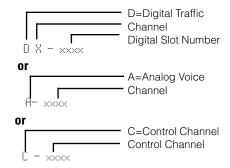
- 2. Press to select the system mode setting you want.
- **3.** Press to exit, or scroll to other features.

Reviewing Feature Settings

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

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

1. Follow the steps in the "Getting to Phone Options..." block to select Feature Review. The display message indicates whether the phone is accessing a Digital, Analog, or Control Channel:



Note: The \square icon flashes when on a digital control channel.

2. Press , or press or to scroll through features you changed from their default settings.

If all of the features are set to the factory standard settings, the display will show Standard Setting.

3. Press to exit the menu.

Getting to Call Options...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Phone Options and press to select.
- 3. Press to scroll to the Call Options submenu, and press to select.
- **4. Press** of to scroll to the following features.

Blocking Incoming Calls

When you are unable to take calls, use the Call Receive feature off to disable call reception. Your phone will inform you of incoming calls without receiving them. While this feature is on, your display will indicate number of calls.

- Follow steps in the "Getting to Call Options..." block above to scroll to Call Receive. You will see Call ReceiveOn or Call ReceiveOff.
- 2. Press → to toggle between Call ReceiveOn and Call ReceiveOff.
- 3. Press to exit, or scroll to other features.

Note: If this feature is active, the phone will beep several times when turned on.

While in this mode, your phone does not receive or store Caller ID messages.

Activating Automatic Hands-Free

Turn this feature on when you are using Hands-Free vehicular accessories. To find out more about accessories for your car, refer to "Accessory Options" on page 102.

Shortcut:
Press , the
Smart Button,

(2) , and
continue with
step 6.

Shortcut: Press , the Smart Button, Smart Bu

- 1. Follow the steps in the "Getting to Call Options..." block to scroll to Automatic HF.

 You will see Automatic HF On or Automatic HF Off.
- Press → to toggle between Automatic HF On and Automatic HF Off.
- **3.** Press to exit, or scroll to other features.

Activating Multiple Key Answer

With Multiple Key Answer on, you can answer calls by pressing the Smart Button, any key on the upper keypad —————————————————, or the upper and lower volume keys.

- 1. Follow the steps in the "Getting to Call Options..." block to scroll to Mult Key Answer. You will see Mult Key Answer On or Mult Key Answer Off.
- Press to toggle between Mult Key Answer On and Mult Key Answer Off.
- **3.** Press to exit, or scroll to other features.

Activating Open to Answer

Note: To view Caller ID information prior to answering a call, you must turn off the Open to Answer feature.

- Follow the steps in the "Getting to Call Options..." block to scroll to Open to Answer. You will see Open to Answer On or Open to Answer Off.
- 2. Press to toggle between Open to Answer On and Open to Answer Off.
- **3.** Press to exit, or scroll to other features.

To answer a call with Open to Answer set to off, press either or .

Shortcut:

Press , the Smart Button, 2 0, and continue with step 2.

Tip: With Open to Answer set to off, you can open the phone to see the message in the display and then answer by pressing or >

Getting to Call Options...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Phone Options and press to select.
- 3. Press to scroll to the Call Options submenu, and press to select.
- 4. Press to scroll to the following features.t

Activating Automatic Answer

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

Note: Auto Answer does not work if keypad cover is closed.

- Follow the steps in the "Getting to Call Options..." block to scroll to Automatic Answer. You will see Automatic Answer On or Automatic Answer Off.
- 2. Press to toggle between Automatic Answer On and Automatic Answer Off.
- **3.** Press to exit, or scroll to other features.

Shortcut:

Press , the Smart Button, 2 6, and continue with step 2.

Tip: If the ringer and VibraCall™ alert are off, the phone answers without ringing or vibrating.

Getting to Phone Options...

- 1. Press , then press to enter the menu system.
- 2. Press to scroll to Phone Options and press to select.
- **3. Press** of to scroll to the following features.

Selecting Battery Options — Power Save Mode

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

Note: Display and keypad backlighting is turned off when Power Save Mode is turned on.

- Follow the steps in the "Getting to Phone Options..." block to select the Battery Options sub-menu. You will see Power Save Mode On or Power Save Mode Off.
- 2. Press to toggle between Power Save Mode On and Power Save Mode Off.
- **3.** Press to exit, or scroll to other features.

Displaying System Identification

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

- Follow the steps in the "Getting to Phone Options..." block to enter the System Options sub-menu. You will see Display SID.
- 2. Press to view the System ID number. After six seconds, the phone will go back to step 2.

Shortcut:

Press , the Smart Button, 2 7, and continue with step 3.

3. Press **600** to exit, or scroll to other features.

Selecting Language

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

- 1. Follow the steps in the "Getting to Phone Options..." block above to select the Select Language sub-menu.
- 2. Press to scroll through the language options.
- 3. Press to select the language setting you want.
- **4.** Press **to** exit, or scroll to other features.

Using the Message Center

ADD SOFT ICON

The Message Menu gives you easy access to your message settings. Some Service Providers let you subscribe to a Digital Message Service that allows you to use your cellular phone like a pager. Ask your Service Provider for information about the availability of messaging in your area.

In this chapter you will learn how to <UPDATE LIST>:

- use short messaging services to view, lock/ unlock, and clear messages
- · use voice mail
- use caller ID
- · adjust speed of your scrolling messages
- toggle the dedicated Message key for messaging or One Touch Dialing
- use the message key to access your messages

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

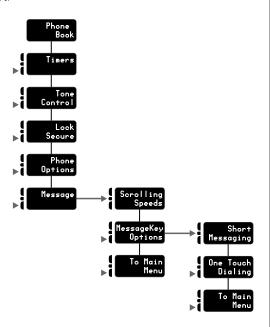


If you are already familiar with previous Motorola cellular phones, you can use your phone's and keys to scroll through the menu system.

<REWRITE THIS CHAPTER TO COMBINE ALL MESSAGE FEATURES HERE. FOR NOW, I'VE COPIED ALL SECTIONS HERE.>

Road Map for Message Center

Press ⑤ to enter the message center. <UPDATE> Start:



Getting to Message Center

- 1. Press (a) to enter the message center.
- 2. Press to scroll to the following features and press to select.

Using Short Messaging

Short Message Service (SMS) is an optional service that may be available from your Service Provider. Contact your Service Provider to subscribe to this service.

If your Service Provider offers Short Messaging Services (SMS), you can receive alphanumeric messages on your Digital StarTAC™ phone, just like a pager. The Digital StarTAC™ saves up to 30 short messages and automatically replaces the oldest messages with the newest as they are received. You can store Call Back messages and numbers for later review. The one-touch Message Button makes viewing your messages easy.

How Your Phone Sends Message Alerts

New Message Alerts

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

- Message Received appears in the display, and:
 - The message icon

 flashes.
 - The phone beeps three times.
 - The status indicator flashes.

or

 Urgent Msg Received or EMERGENCY MSG RECVD appears in the display, and:

- The message icon

 flashes.

 □
- The phone beeps five times.
- The status indicator flashes.

Short Message Indicators

If a message is unread, the colon after the message number is highlighted in reverse video. After the message appears and scrolls across the display for the first time, it is denoted as a "read" message and is no longer highlighted.

If the sender has marked the message "Emergency" or "Urgent," the display shows Call Home.

Setting Scrolling Speeds

Adjusting the message scrolling speed is quick and easy. See "Setting the Scrolling Speed" on page 100 for details.

Viewing a Short Message

Entering The Message Center

To enter the message center:

Press and hold .

- If the message center has messages, you will see New XX Total YY.
 - where *XX* is the number of unread messages, and *YY* is the total messages currently stored.
- If the message center has no messages, you will see Msg Center Empty.
- If the message center is full, you will see Msg Memory Full.

Tip:

Pressing will start or stop a scrolling message. To adjust the scrolling speed, see "Setting Scrolling Speeds" on page 35.

Reading The Most Recent Message

Press on to view the most recently received message.

Retrieving a Specific Message

Enter the message number to retrieve a specific message. After a few seconds, the message begins to scroll across the display.

If a message does not match that number, Invalid Msg Number appears in the display.

Reading Subsequent Messages

When the current message has scrolled across the display:

Press to display the next message.

Reading the Time/Date of Message

When the current message has scrolled across the display:

Press to display the time/date stamp of the current message.

Reviewing Current Message

Press to display the beginning of the current message once the current message has scrolled past.

Initiating a Call Back

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

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

You will see Dial No.? XXXXXXX.

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

2. Press , or press to dial the number shown.

or

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

Note: While in the message center, you can enter a Call Back number at any time by using the keypad, and then pressing to place the call.

Exiting the Message Center

To exit the message center:

Press 🚾.

or

Press and hold .

Locking and Unlocking a Message

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

Press , then press , to toggle the current message between locked and unlocked.

 ${
m Msg}$ Locked is displayed when a message is locked.

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

Clearing Messages

Clearing the Current Message

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

You will see Clear XX Press *, where XX is the number of the message you want to clear.

2. Press - to clear the message.

You will see Message XX Cleared.

or

Press or any other key if you do not wish to clear the message.

Note: You must unlock a locked message before you can clear it. For more information, see "Locking and Unlocking a Message" on page 95.

Clear All Messages

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

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

You will see Clear All Press *.

2. Press + to verify that you want all the messages cleared.

or

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

3. Press **to exit from the message center.**

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

Note: You must unlock any locked messages before they can be cleared. For more information, see "Locking and Unlocking a Message" on page 95.

Getting to Message Center...

- **1. Press** to enter the message center.
- 2. Press to scroll to the following features and press to select.

Using Voice Mail

(This feature updates you each time a message is sent to your voice mail number, providing you with real-time information on messages waiting to be retrieved. To hear any voice mail messages received, dial your voice mail access number or retrieve the access number from memory.

When a voice mail message is received, the $\bowtie \mathfrak{y}$ icon flashes rapidly.

- Follow the steps in the "Getting to Phone Options..." block above to scroll to Voice Mail. If a voice mail message has been received, the display will show Voice Mail XX Messages.
- 2. Press to exit, or scroll to other features.

Using Caller ID¹

Caller ID allows you to view the number of the calling party in the phone's display while the phone is ringing. Your Digital StarTAC[™] cellular phone also stores the telephone numbers of the last ten incoming calls.

If the caller's phone number matches a phone number stored in the phone's memory, the phone automatically displays the name associated with that phone number. The display of the name-tag or phone number is controlled through your setting of

Caller ID is not available in all markets. Contact your Service Provider for availability information.

the Name Preference feature. (See "Phone Book Display Preferences" on page 53.)

<ADD NEW TEXT: NAME IS NOT REQUIRED IN PHONE BOOK>

If you subscribe to call waiting and receive a call while another call is in progress, you hear a call waiting tone and the caller's number appears on the display. The number will automatically be stored and can be viewed after ending the call, using the procedure described on the next page.

If the caller has restricted transmission of the phone number, your phone will display Private. If the Calling Number ID information is not available to the cellular network, your phone will display No ID. This information will not be in the Caller ID list as one of the last 20 numbers dialled.

You can store any number contained in your Caller ID memory to a memory location in the same way you would save any phone number. Once the correct number is displayed, press and a memory location or to autoload. See "Storing with the Menu" on page 44 for more information on storing phone numbers.

To Use Caller ID

- 1. Follow the steps in the "Getting to Phone Options..." block to scroll to Caller ID. You will see Caller ID XX Nops. (XX) is the total numbers stored.
- 2. Press to enter your Caller ID number list.
- 3. Press to scroll through the list. The display shows the call number in the upper left corner, with the phone number of the last phone call displayed as C0, the next to last as C1, and so on, through C9.

If no numbers are in the caller ID list, you see ${\sf Empty}$.

4. Press see to dial the displayed number.

Shortcut:

Press (then press and hold (the press and continue with step 2 if you have messages.

Note: To view Caller ID information prior to answering a call, you must turn off the Open to Answer feature. (See "Activating Open to Answer" on page 86.)

Clearing Caller ID

To erase all entries saved in your Caller ID memory:

- 1. Press and hold when a Caller ID name and number is displayed. You will see Clear?.
- 2. Press sto clear.

or

Press to cancel and leave your caller ID memory intact.

<ADD SECTIONS FROM CDMA MANUAL? PAGES 50-51>

Getting to the Message Center...

- **1. Press a** to enter the message center.
- 2. Press to scroll to the following features and press to select.

Setting the Scrolling Speed

To adjust the scrolling speed of your incoming messages:

- 1. Follow the steps in the "Getting to the Message Menu..." block above to select the Scrolling Speeds option.
- 2. Press to scroll through scrolling speed settings:
 - To scroll slowly, select Slow Scrolling.
 - For medium scrolling, select Medium Scrolling.
 - To scroll quickly, select Fast Scrolling.
- 3. Press to exit, or scroll to other features.

Selecting Message Key **Options**

<WILL THIS SECTION GO AWAY WITH THE NEW MESSAGE CENTER?>

If you don't have access to a messaging service, your dedicated Message key can be used as a third One-Touch Dialing key. See "Using Super Speed Dial" on page 37 for more information on using and programming One-Touch Dialing Keys.

1. Follow the steps in the "Getting to the Message Menu..." block above to select the Message Key Options. You will see Short Messaging or One-Touch Dialing.

- 2. Press → to toggle between Short Messaging and One-Touch Dialing.
- **3.** Press **to** exit, or scroll to other features.

Reference Information

Accessory Options

An exciting line of Motorola Digital StarTAC™ 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 as long as you like. 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. See "Battery Talk-Time and Standby-Time" on page 15 for battery talk-times and standbytimes.

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.

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 pocket can charge batteries while they are attached to or separate from your phone. Now it is easy to rotate batteries and always have a charged spare. < CREATE NEW GRAPHIC>



Holster

Your Digital StarTAC™ is so small and light, it is positively wearable. Slip it in and clip it on—for the ultimate in high-tech fashion. < CREATE NEW **GRAPHIC>**



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. Place the foam cover on the earpiece for a more comfortable fit.



When you use the headset, your phone's intelligent circuitry automatically enables the Multiple Key Answer feature so you can answer calls with any key on the side

of your phone. (See "Activating Multiple Key Answer" on page 86.) You can even use the Smart Button to end calls. (See "Using the Smart Button" on page 30.) 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 Digital StarTAC™. 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.

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 a required external antenna that can improve your signal reception and boost performance.

Accessory Warranty Information

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

For details on the complete line of Motorola cellular accessories, see your dealer or visit our Web site at http://www.mot.com/.

Troubleshooting

Question	Answer
I pressed the power button, but nothing happened. What's wrong with my phone?	Make sure that you press and hold the power button. If nothing still happens, then check that you have installed a battery and that the battery is charged. For more information about batteries and charging see the sections on batteries starting with "Installing and Removing Batteries" on page 18.
My battery didn't last as long as I expected. What can I do to extend battery life?	Your battery's "talk-time" and "standby-time" are relative measurements of the battery's capacity. The more you talk on the phone, the less standby-time you will have, and vice versa. To get the most from your battery, allow it to charge fully. To charge the battery to 100% of its capacity, leave it in the charger for an extra hour after the charger's light turns green. You can also turn on the Power Save Mode feature to extend battery life. Certain features demand power from your battery and reduce battery life. If you have selected the Automatic Display of Individual Call Timer feature, the display uses battery power to remain active during each call. Turn this feature off to conserve battery energy. (See "Displaying the Individual Timer Automatically" on page 58 for more information on this feature.) Exposing your battery to extreme temperatures—below -10°C (14°F) or above 45°C (113°F)—can shorten battery life. Batteries are especially sensitive to high temperature extremes. As a good rule, always take your phone with you when you leave your car.
The display says, "Locked." How do I unlock my phone?	Enter the last three digits of your cellular number. If that doesn't work, use the factory preset lock code: 123. If all else fails, call your service provider (the company that sends you your monthly cellular bill) for assistance. (See "Locking/ Unlocking Your Phone" on page 70 for more information on Security Features.)
I tried to place a call and received a fast busy signal.	This sound means that the cellular system did not process your call. For example, the cellular system may be overloaded with call attempts. To redial the number, press before ending your call attempt, or press and try the call again later. (See "Redialing a Number" on page 31 for more information on redialing.)

Question	Answer
I tried to place a call and received an alternating high/low tone.	This sound means your call did not reach the cellular system. You may have dialed the number too soon after turning the phone on. Wait until the "NS" light stops blinking before placing a call. An alternating tone may also indicate that your phone's signal is blocked. Make sure you're clear of any obstructions such as bridges, parking garages, or tall buildings.
I am in my home service area, but the Roam indicator is flashing.	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 Ro #> \$10 to switch to the other number. See "Switching Between Numbers" on page 82 for more information on multiple phone numbers.
I tried to listen to my Voice Mail (or use a paging service, a calling card, etc.) but nothing happened.	You have probably turned off the Scratchpad tones. Place your call, enter the access numbers when prompted by the recording, then press . To avoid this problem in the future, follow the directions "Turning Scratchpad Tones On and Off" on page 65 to turn the Scratchpad tones on.
What if my phone beeps several times after power up?	The phone is programmed for Call ReceiveOff. See "Blocking Incoming Calls" on page 85 for information.
My phone was stolen. What should I report and to whom?	Report a stolen phone to the police and to your service provider (the company that sends you your monthly cellular service bills).

Question	Answer
	You may have turned off your Scratchpad tones. Follow the directions in "Turning Scratchpad Tones On and Off" on page 65 to turn the Scratchpad tones on.
I tried to place a calling card call using the internal Phone Book, but it didn't work.	Check that you stored your calling card information in the correct order, and make sure the groups of numbers are separated by pauses. The easiest way to correct the sequence may be to start from scratch. Follow the instructions on "Storing Calling Card Information" on page 47, enter your calling card information again, and store it in the same memory location as your previous attempt. Also keep in mind that when using your calling card, you must enter the number you are calling with the area code, but without the initial "1." Check with your long distance carrier for details on using your calling card.

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Patent Information

Manufactui	red under one	or more of th	e following U	.S. patents:			
4121218	4617520	D295627	4922178	D325028	5237257	D357224	5519346
4138681	D286778	4746242	4945570	D325583	5239127	D357457	5524276
4193036	4626309	D295973	4954796	5109536	5241545	5410741	5524278
4254382	4628529	D295975	4959851	D325915	5241548	D357680	D370463
4302845	4629829	4751737	4963812	5113436	5241650	D357681	5530922
4312074	4630304	D296187	4963843	5117450	5241693	5428836	5542116
4327319	4630305	4761621	4965537	5121047	5242767	D359734	5544250
4329666	4633141	4764737	4972355	5122480	D339582	D359735	D372481
4369516	4636593	D297734	4972432	5122722	5249302	D359959	5546275
4369522	4636741	D297735	4972455	D327061	5251331	5432017	5546380
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