

APPLICANT: MOTOROLA, INC.

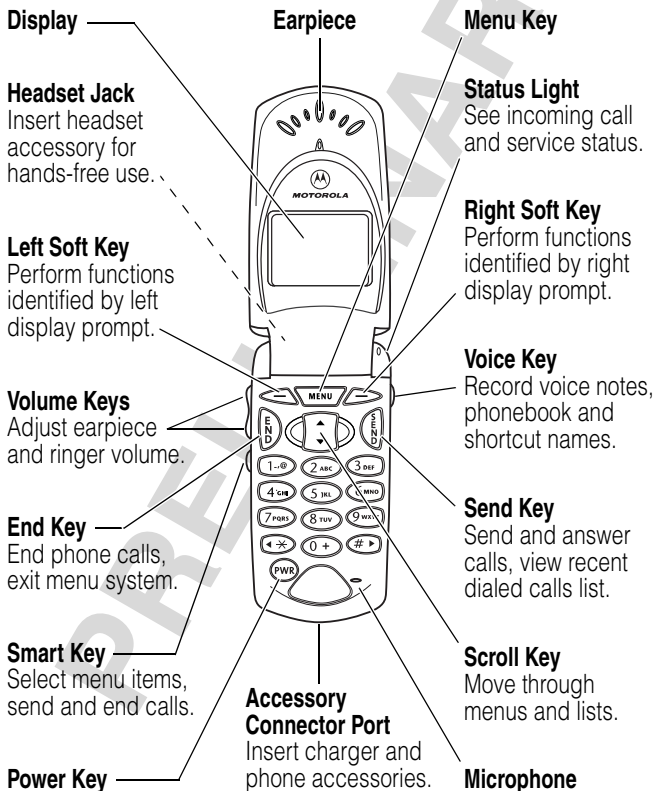
FCC ID: IHDT56DC1

INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:

Welcome

Welcome to the world of Motorola digital wireless communications! We are pleased that you have chosen the Motorola V60x wireless phone.



Personal Communications Sector
600 North U.S. Highway 45
Libertyville, Illinois 60048

1-800-331-6456 (United States)
1-888-390-6456 (TTY/TDD United States)
1-800-461-4575 (Canada)

www.motorola.com (United States)
www.motorola.ca (Canada)

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Menu Map

Main Menu

- Recent Calls
 - Received Calls
 - Dialed Calls
 - Notepad
 - Call Times
- Phonebook
- Datebook
- Radio *
- Messages
 - Vicemail
 - Create Message
 - Inbox
 - Outbox
 - Quick Notes
 - Drafts
 - Browser Alerts
- Shortcuts
- Voice Notes
- Browser
- Calculator
- Picture Viewer
- Get It Now
- Settings
(see next page)

* This is the standard phone menu layout. Menu organization and feature names may vary on your phone. Not all features may be available for all users.

For example, the **Radio** option (left) is available only when the optional FM Stereo Radio Headset accessory is plugged into your phone.

Shortcuts
Change display zoom: Press  , then press and hold 
Display my phone number: Press  
Dial voicemail number: Press and hold 
Go to dialed calls list: Press 
Exit menu system: Press 

Settings Menu

Ring Styles

- Style
- Style Detail
- My Tones

Phone Status

- My Tel. Number
- Active Line
- Battery Meter
- Other Information

Browser Setup

In-Call Setup

- In-Call Timer
- Answer Options

Security

- Phone Lock
- Lock Application
- Restrict Calls
- New Passwords

Location

• Other Settings

- Initial Setup
 - Time and Date
 - Auto PIN Dial
 - Auto Redial
 - Backlight
 - Status Light
 - Zoom
 - TTY Setup
 - Scroll
 - Animation
 - Language
 - Contrast
 - DTMF
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- Personalize
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 - Banner
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About This Guide

This user guide introduces you to the many features in your Motorola wireless phone.

Navigating To a Menu Feature

Use the menu system to access your phone's features. This guide shows you how to select a menu feature as follows:

Find the Feature

 > Messages
> Create Message

This example shows that you must press , scroll to and select **Messages**, then scroll to and select **Create Message**.

Optional Features



This label identifies an optional network or subscription-dependent feature that may not be offered by all service providers in all geographical areas. Contact your service provider for more information.

Optional Accessories



This label identifies a feature that requires an optional Motorola Original™ accessory.

Safety and General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION.
READ THIS INFORMATION BEFORE USING YOUR PHONE.

The information provided in this document supersedes the general safety information in user guides published prior to December 1, 2002.

Exposure To Radio Frequency (RF) Energy

Your phone contains a transmitter and a receiver. When it is ON, it receives and transmits RF energy. When you communicate with your phone, the system handling your call controls the power level at which your phone transmits.

Your Motorola phone is designed to comply with local regulatory requirements in your country concerning exposure of human beings to RF energy.

Operational Precautions

To assure optimal phone performance and make sure human exposure to RF energy is within the guidelines set forth in the relevant standards, always adhere to the following procedures.

External Antenna Care

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

Do NOT hold the external antenna when the phone is IN USE. Holding the external antenna affects call quality and may cause the phone to operate at a higher power level than needed. In addition, use of unauthorized antennas may result in non-compliance with the local regulatory requirements in your country.

Phone Operation

When placing or receiving a phone call, hold your phone as you would a wireline telephone.

Body-Worn Operation

To maintain compliance with RF energy exposure guidelines, if you wear a phone on your body when transmitting, always place the phone in a Motorola-supplied or approved clip, holder, holster, case, or body harness for this phone, if available. Use of accessories not approved by Motorola may exceed RF energy exposure guidelines. If you do not use one of the body-worn accessories approved or supplied by Motorola, and are not using the phone held in the normal use position, ensure the phone and its antenna are at least 1 inch (2.5 centimeters) from your body when transmitting.

Data Operation

When using any data feature of the phone, with or without an accessory cable, position the phone and its antenna at least 1 inch (2.5 centimeters) from your body.

Approved Accessories

Use of accessories not approved by Motorola, including but not limited to batteries and antenna, may cause your phone to exceed RF energy exposure guidelines. For a list of approved Motorola accessories, visit our website at www.Motorola.com.

RF Energy Interference/Compatibility

Note: Nearly every electronic device is susceptible to RF energy interference from external sources if inadequately shielded, designed, or otherwise configured for RF energy compatibility. In some circumstances your phone may cause interference.

Facilities

Turn off your phone in any facility where posted notices instruct you to do so. These facilities may include hospitals or health care facilities that may be using equipment that is sensitive to external RF energy.

Aircraft

When instructed to do so, turn off your phone when on board an aircraft. Any use of a phone must be in accordance with applicable regulations per airline crew instructions.

Medical Devices

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 6 inches (15 centimeters) be maintained between a handheld wireless phone and a pacemaker.

Persons with pacemakers should:

- ALWAYS keep the phone more than 6 inches (15 centimeters) from your pacemaker when the phone is turned ON.
- NOT carry the phone in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn OFF the phone 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 RF energy. Your physician may be able to assist you in obtaining this information.

Use While Driving

Check the laws and regulations on the use of phones in the area where you drive. Always obey them.

When using your phone while driving, please:

- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

Responsible driving best practices may be found in the “Wireless Phone Safety Tips” at the end of this manual and at the Motorola website:

www.Motorola.com/callsmart.

Operational Warnings

For Vehicles With an Air Bag

Do not place a phone in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a phone is placed in the air bag deployment area and the air bag inflates, the phone may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmospheres

Turn off your phone prior to entering any area with a potentially explosive atmosphere, unless it is a phone type especially qualified for use in such areas and certified as “Intrinsically Safe.” Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

Note: The areas with potentially explosive atmospheres referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles, such as grain, dust, or metal powders. Areas with potentially explosive atmospheres are often but not always posted.

Blasting Caps and Areas

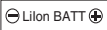
To avoid possible interference with blasting operations, turn OFF your phone when you are near electrical blasting caps, in a blasting area, or in

areas posted “Turn off electronic devices.” Obey all signs and instructions.

Batteries

Batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects. **Use only Motorola original batteries and chargers.**

Your battery or phone may contain symbols, defined as follows:

Symbol	Definition
	Important safety information will follow.
	Your battery or phone should not be disposed of in a fire.
	Your battery or phone may require recycling in accordance with local laws. Contact your local regulatory authorities for more information.
	Your battery or phone should not be thrown in the trash.
	Your phone contains an internal lithium ion battery.

Getting Started

What's in the Box?

Your wireless phone typically comes equipped with a battery and a charger. Other accessory options can customize your phone for maximum performance and portability.

To purchase Motorola Original™ accessories, contact the Motorola Customer Call Center at 1-800-331-6456 in the United States or 1-800-461-4575 in Canada.

Installing the Battery

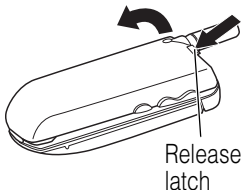
You must install and charge the battery to use your phone.



Your phone is designed to be used only with Motorola Original batteries and accessories. We recommend that you store batteries in their protective cases when not in use.

Do This

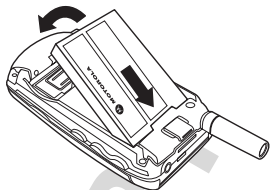
- 1 Remove the battery from its protective clear plastic case.
- 2 If necessary, push down the battery door release latch and lift the door off of the phone.



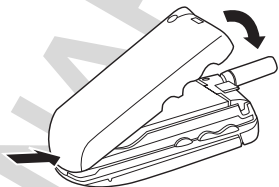


Do This

- 3 Insert the battery, printed arrow first, **under the tab** at the top of the battery compartment and push down.



- 4 Insert the ridge at the bottom of the battery door into the base of the phone, then push the door down and snap it into place.

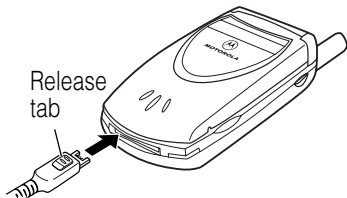


Charging the Battery

New batteries are shipped partially charged. Before you can use your phone, you need to install and charge the battery, as indicated by the following instructions. Some batteries perform best after several full charge/discharge cycles.

Do This

- 1 Plug the travel charger into your phone with the release tab facing up.



Do This

- 2 Plug the other end of the travel charger into the appropriate electrical outlet.
- 3 When your phone indicates that the battery is fully charged (**Charge Complete**), press the release tab and remove the travel charger.



Note: When you charge the battery, the battery level indicator in the upper right corner of the display shows how much of the charging process is complete.

Changing the Convertible Covers



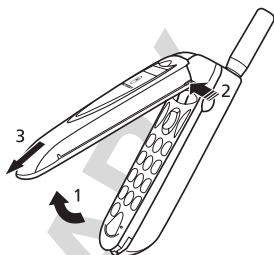
You can replace the flip cover and battery cover on your phone to personalize its appearance. Matching front and back cover sets are available in a variety of colors and designs.

Your phone is designed to be used only with Motorola Original accessories. See your Motorola retailer for these convertible covers.

Remove a Flip Cover

Do This

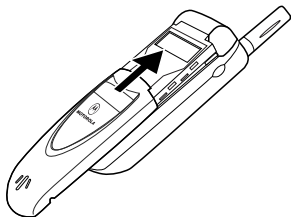
- 1 Open your flip phone *half* way.
- 2 Press in the tiny silver release button with your fingernail. This button is on the side of the top half of the phone.
- 3 While pressing the silver button in, slide the cover off the phone.



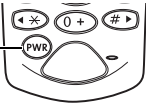
Attach a Flip Cover

Do This

- 1 Close your flip phone.
- 2 Line up the ridges on each side of the cover so that they align with the slots on the phone.
- 3 Slide the cover onto the phone until it snaps into place.



Turning Your Phone On

Do This	To
1 Open your phone	expose the keypad
2 Press and hold 	turn on your phone
Power key 	
3 If necessary, enter your four-digit unlock code and press OK ()	unlock your phone The unlock code is originally set to 1234. Your service provider may change this number before you receive your phone.

Making a Call

Do This	To
1 Extend the antenna	optimize signal reception Tip: You may have to pull on the antenna a second time to fully extend it.



**Do This**

2 Press the keypad keys

To

dial the phone number

Tip: If you make a mistake, press **DELETE** () to delete the last digit, or press and hold **DELETE** () to clear all digits.

3 Press 

make the call

Ending a Call

Press**To**

end the call

Answering a Call

When you receive a call, your phone rings and/or vibrates and displays an incoming call message.

Press

or **ANSWER** ()

To

answer the call

Tip: If your phone is locked, you must unlock it to answer the call.

Seeing Your Phone Number

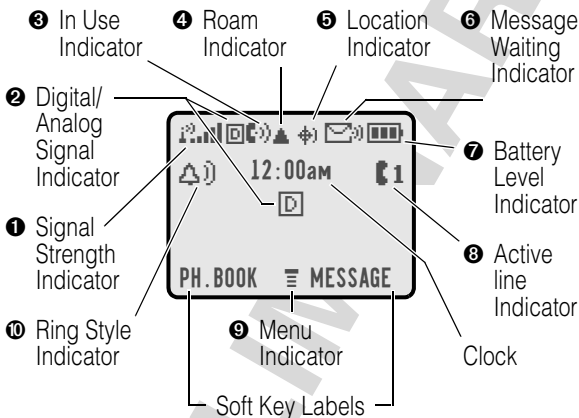
Press**To**

see your phone number

About Your Phone

See page 1 for a basic phone diagram.

Using the Display



The *idle display* is the standard display that you see when you are *not* on a call or using the menu.

Labels at the bottom corners of the display show the current soft key functions. A  (menu) indicator at the bottom center of the display indicates that you can press  to enter the main menu.

❶ Signal Strength Indicator Vertical bars show the strength of the network connection. You cannot make or receive calls when the  (no signal) indicator is displayed.



❷ Digital () or Analog () Signal Indicator Shows whether you are receiving a digital or analog signal.

❸ In Use Indicator Shows that a call is in progress.

❹ Roam Indicator Shows that your phone is seeking or using another network system outside your home network.



❺ Location Information Indicator Indicates when your Location Information is available  or unavailable .



❻ Message Waiting Indicator Appears when you receive a voicemail or text message.



❼ Battery Level Indicator Vertical bars show the battery charge level. Recharge the battery when you see **Low Battery** and hear the low battery alert.



❽ Active Line Indicator Shows the current active phone line.

❾ Menu Indicator Indicates that you can press  to enter the main menu or open a feature sub-menu.

10 Ring Style Indicator Shows the ring style setting.

 = loud ring

 = soft ring

 = vibrate

 = vibrate and ring

 = silent

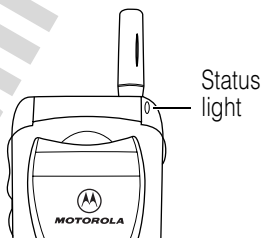
Zooming In and Out

Press and release **MENU**, then press and hold **MENU** to zoom in and out on the display. Zoom in to increase text size, zoom out to display more information.

You can also zoom in and out from the menu. See page 58.

Using the Status Light

The status light shows when you have an incoming call or message, or when your phone is *roaming* (using a non-home system).



Indication	Status
alternating red/green	incoming call
flashing green	in service, home system
flashing yellow	roaming, non-home system
flashing red	no service

The status light initially is turned off to extend battery life. To turn it on, see “Initial Setup” on page 58.



Note: Turning on the status light will substantially reduce your phone's *standby time*, the length of time that your phone's battery retains power when the phone is turned on but is not in use.

Adjusting Volume

Press the up and down volume keys to:

- increase and decrease earpiece volume during a call
- increase and decrease the ringer volume setting when the idle display is visible (flip must be open)

Volume keys

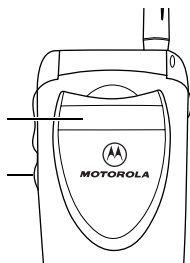


Using the Smart Key

The smart key gives you another way to perform many basic phone functions. It anticipates the next action you are likely to perform. For example, when you highlight a menu item, you can press the smart key to select it. You can use the smart key to make and end calls, toggle features on and off, and open your phonebook. The smart key usually performs the same function as the right soft key (➤).

External display

Smart key



Note: The smart key provides an optional way to do some things faster. It is never *the only way* to perform a task.

Using the External Display

When the flip is closed, the external display shows the time and date. It also displays messages to notify you of incoming calls and other events. You can perform the following functions in the external display.

Set Phone Ring Style

Press	To
1 volume keys	scroll to Style
2 smart key	select a ring style
3 volume keys	return to the idle display

Return an Unanswered Call

Your phone keeps a record of your unanswered calls and displays **X Missed Calls** in the external display.

Press	To
1 smart key	see the received calls list
2 volume keys	scroll through the list and select a call to return
3 smart key	make the call

Note: Because the microphone and earpiece are unavailable when the phone is closed, you must use a headset or other hands-free device with this feature.



Battery Use

Battery performance depends on many factors, including your wireless carrier's network configuration; signal strength; the temperature at which you operate your phone; the features and/or settings you select and use; and your voice, data, and other application usage patterns.

Battery Care

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

To maximize your battery's performance:

- Always use Motorola Original™ batteries and battery chargers. The phone warranty does not cover damage caused from using non-Motorola batteries and/or battery chargers.
- New batteries or batteries that have been stored for long periods of time may require a longer charge time.
- Maintain the battery at or near room temperature when charging.
- Do not expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your vehicle.
- When you do not intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- Over extended periods of time, batteries gradually wear down and require longer charging times. This is

normal. If you charge your battery regularly and notice a decrease in talk time or an increase in charging time, then it is probably time to purchase a new battery.



The rechargeable batteries that power this product must be disposed of properly and may need to be recycled. Refer to your battery's label for battery type. Contact your local recycling center for proper disposal methods. Never dispose of batteries in a fire because they may explode.

Extending Battery Life

- **Turn off the status light**

The status light uses power. To turn it off, see "Initial Setup" on page 58.

- **Turn off the display backlight**

The backlight uses power. To turn it off, see "Initial Setup" on page 58.

- **Minimize keypad-intensive functions**

Activities that require intensive keystroke use (such as playing a game or using messaging) reduce your phone's talk and standby time.



Making and Answering Calls

For basic instructions on how to make a call, end a call, and answer a call, see pages 21–22.

Redialing a Number

If you hear an ordinary busy signal:

Press	To
1 	hang up
2 	redial the busy number

Using Automatic Redial

If the network is busy, you hear a fast busy signal, and your phone displays **Call Failed**.

With automatic redial, your phone automatically redials the number for four minutes. When the call goes through, your phone rings or vibrates one time, displays **Redial Successful**, and then connects the call.

You must turn on automatic redial to use the feature. See the “Auto Redial” option on page 58.

When automatic redial is turned off, you can manually activate the feature to redial a phone number. When you hear a fast busy signal and see **Call Failed**:

Press	To
 or RETRY ()	activate automatic redial

Using Caller ID



Calling line identification (caller ID) displays the phone number for incoming calls.

The phone displays the caller's name when the name is stored in your phonebook, or

Incoming Call when caller ID information is not available.

Returning an Unanswered Call



Your phone keeps a record of your unanswered calls, and displays:

- the  (missed call) indicator
- X Missed Calls Y Unknown**, where **X** is the total number of missed calls and **Y** is the number of missed calls with no caller ID information

Press	To
1 VIEW ()	see the received calls list
2 	select a call to return
3 	make the call

Calling an Emergency Number

Your service provider programs one or more emergency phone numbers, such as 911, that you can call under any circumstances, even when your phone is locked.

Note: Emergency numbers vary by country. Your phone's preprogrammed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.

Press	To
1 keypad keys	dial the emergency number
2 	call the emergency number

Turning Off a Call Alert

You can turn off your phone's incoming call alert before answering the call.

Press	To
either volume key	turn off the alert

Canceling an Incoming Call

While the phone is ringing or vibrating:

Press	To
 or IGNORE ()	cancel the incoming call



Depending on your phone settings and/or service subscription, the call may be forwarded to another number, or the caller may hear a busy signal.

Calling With Speed Dial

Each entry you store in your phonebook is assigned a unique *speed dial* number. To speed dial a phonebook entry:

Press	To
1 keypad keys	enter the speed dial number for the entry you want to call
2 	submit the number
	Note: Some networks let you skip this step for speed dial numbers 1 through 99.
3 	call the entry



Calling With One-Touch Dial

To call phonebook entries 1 through 9, just press and hold the one-digit speed dial number for one second.

We recommend that you reserve phonebook entry 1 (speed dial number 1) for storing and dialing your voicemail number. In many cases, your service provider has already done this for you. If necessary, see page 69 to store your voicemail number for one-touch dial access.

Calling a Number In a Text Message



To call a phone number embedded in a text message that you receive:

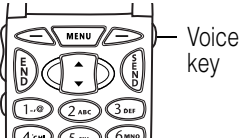
Press	To
1 MENU	open the Text Msg Menu
2	scroll to Call Back
3 SELECT ()	call the number

Additional Calling Features

While dialing (with digits visible in the display), open the **Dialing Menu** to perform the following tasks:

Press	To
MENU > Attach Number	attach a number from the phonebook or recent call lists
MENU > Send Message	open a new text message with the number in the To field

You can also call a number using these features:

Do This	To Call
Press and release the voice key, then say a voice name 	a phonebook entry using voice dial To record a voice name, see page 73.
Press MENU > Recent Calls > Received Calls or Dialed Calls > <i>entry to call</i>	a missed call, or a recent received or dialed call



Using Features While On a Call

Using Call Waiting



When you are on a call, an alert tone sounds to indicate that you have received a second call.

Press	To
1 	answer the new call
2 	switch back to the first call

Making a Three-Way Call



During a call, you can call and connect a third party for a three-way call. You cannot do this if you already have a call on hold.

Press	To
1 keypad keys	dial the third party's number
2 	Note: Some networks may require you to press  first. call the number
3 	connect the two calls
4 	end the entire call



Additional On-Call Features

Press	To
MUTE () (if available) or MENU > Mute	mute the call
SPEAKER () (if available) or MENU > Spkrphone On	activate an attached speakerphone during an active call
MENU > My Tel. Number	see your phone number
MENU > Send Tones	send a number to the network as DTMF tones, for credit card or password calls To activate DTMF tones, see the “DTMF” option on page 5959.
MENU > Received Calls or Dialed Calls	view recent received or dialed call numbers
MENU > Messages	view or send messages
MENU > Datebook	view datebook entries
MENU > Other Information	view phone specifications



Using the Menu

Navigating to a Feature

Use these keys to move through the menu system:

Menu Key

Enter menu system, or open a sub-menu, when  appears in bottom center of display.

Left Soft Key

Perform function shown in lower left corner of display (usually **EXIT** or **BACK**).

Volume Keys

Scroll up or down through menus and lists.

End Key

Exit menu system without making changes, return to idle display.

Right Soft Key

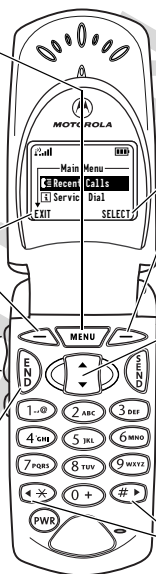
Perform function shown in lower right corner of display (usually **SELECT** the highlighted menu item).

Scroll Key

Scroll up or down through menus and lists. From idle display, press up or down to open phonebook.

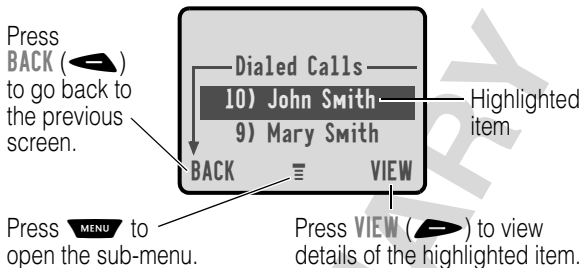
and

Cycle through and set the value of the highlighted menu item.



Selecting a Feature Option

Some features require you to select an item from a list:



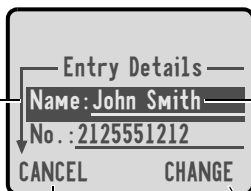
- Press **↑** to scroll up or down to highlight the item you want.
- In a numbered list, press a number key to highlight the item.
- In an alphabetized list, press a key multiple times to cycle through the letters on the key and highlight the closest matching list item.



Entering Feature Information

Some features require you to enter information:

Press  to scroll down to additional items.



Highlighted item

Press **CANCEL** () to exit without making changes. **DONE** () appears when you enter or edit information.

Press **CHANGE** () to edit the information.

- Enter numbers or text with the keypad.
- When an item has a list of possible values, press  or  to scroll through and select a value.
- When an item has a list of possible values, press  to the left or right to scroll through and select a value.
- When an item has a list of possible numeric values, press a number key to set the value.
- If you enter or edit information and do not want to save your changes, press  to exit without saving.



The message center lets you compose and send text messages. A *flashing cursor* shows where text will appear:

Flashing cursor indicates insertion point.



Press **BROWSE** () to view and insert a quick note.

Press **CANCEL** () to exit without making changes.

Press **MENU** () to open the sub-menu.

When you enter text using the standard tap method, the flashing cursor changes to a *block cursor*, and the soft key functions change:

Block cursor indicates current highlighted character.



Press **OK** () to accept and store the text.

After two seconds, the block cursor reverts to a flashing cursor and moves to the next position.

Press **DELETE** () to delete the character to the left of the insertion point.



Entering Text



Multiple text entry methods make it easy for you to enter names, numbers, and messages on your phone.

Choosing a Text Mode

Press  from any text entry screen to select a text mode:

- | | |
|-------------------|---|
| iTAP | Let the phone predict each word as you enter it. See page 47. |
| Tap Method | Enter letters, numbers, and symbols by pressing a key one or more times. See page 43. |
| Numeric | Enter numbers only. |
| Symbol | Enter symbols only. See page 46. |
| Browse | Browse your phonebook or recent call lists to select a name or number. |

Note: The text mode you select remains active until you change it by selecting another mode.

Using Tap Method

This is the standard mode for entering text on your phone.

Press **MENU** from any text entry screen and select the **Tap Method** menu option.

Do This	To
1 Press a number key one or more times	select a letter, number, or symbol shown in the "Character Chart" on page 45
2 Continue pressing number keys	enter the remaining characters
3 Press OK ()	store the text when you are finished



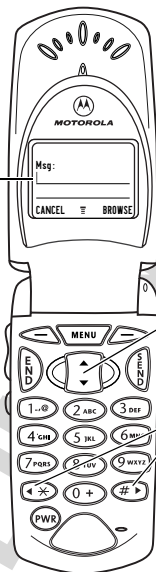
General Text Entry Rules

Press a number key repeatedly to cycle through its characters. See “Character Chart” on page 45.



Press a number key as many times as necessary to enter the desired character at flashing cursor location.

Press and hold a number key to cycle between text entry modes.



Change letter in block cursor to uppercase or lowercase.

Move flashing cursor to the left or right in text message.

- If you do not press a key for two seconds, the character in the block cursor is accepted, and the cursor moves to the next position.
- The first character of every sentence is capitalized. (Press down to force the character to lowercase while it is highlighted by the block cursor).

- Your phone may support multiple languages. The current language setting determines whether a new message begins on the left or right side of the display.

You can switch languages within a message.

Press **MENU** to select the text mode and language you want to use.

Character Chart

Use this chart as a guide for entering spaces, letters, numbers, and symbols with the tap method.

1 [ED]	space . 1 ? ! , @ _ & ~ : ; " - () ' ÿ ¡ % £ \$ ¥ ¤ €
2 ABC	a b c 2 ä å á à â ã α β ç
3 DEF	d e f 3 δ ë é è ê ε φ
4 GHI	g h i 4 ĭ í î γ η ι
5 JKL	j k l 5 κ λ
6 MNO	m n o 6 ñ ö ø ó ò ô õ μ υ ω
7 PQRS	p q r s 7 π β σ
8 TUV	t u v 8 θ ü ú ù û τ
9 WXYZ	w x y z 9 ξ ψ
0 OP*	+ - 0 x * / \ [] = > < # §

Note: This chart may not reflect the exact character set available on your phone.

Using Symbol Mode

Your phone provides an alternate way to enter symbol characters in a message. Press **MENU** from any text entry screen and select the **Symbol** menu option.

Do This	To
1 Press a number key one time	display its symbol options at the bottom of the display See "Symbol Chart" on page 46.
2 Press < * > or # > or Press the number key multiple times	highlight the symbol you want
3 Press SELECT (>)	enter the symbol at the flashing cursor location

Symbol Chart

Use this chart as a guide for entering characters in symbol mode.

1	space . ? ! , @ _ & ~ : ; " - () ' ` ¡ ¢ % £ \$ ¥ ¤ €
2	@ _ \
3	/ : ;
4	" & '

5 JKL	() [] { }
6 MNO	¿ ¡ ~
7 PQRS	< > =
8 TUV	\$ £ ¥ ¤ €
9 WXYZ	# % *
0 OPS	+ - x * / = > < # §

Using iTAP™ Software Predictive Text Entry Method

iTAP™ software provides a predictive text entry method that lets you enter a word using one keypress per letter.

Press **MENU** from any text entry screen and select the iTAP menu option.

Enter Words

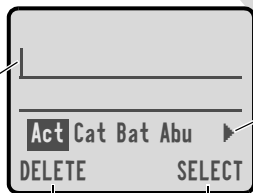
Do This	To
1 Press a number key one time	enter the first letter of the word The letters associated with the key are shown at the bottom of the display.
2 Press number keys (one per letter)	enter the rest of the word Alternative words and letter combinations are shown at the bottom of the display. The word choices are updated with each keypress.



Do This	To
3 Press ⌘* or #▶	highlight the word you want
4 Press SELECT ()	enter the word at the flashing cursor location
	A space is automatically inserted after the word.

For example, to spell the word “act,” press **2 abc** **2 abc** **8 tuv**. The display shows:

Flashing cursor indicates insertion point.



Press  to scroll and see additional word choices.

Press **DELETE** () to clear the last letter.

Press **SELECT** () to insert the highlighted word.

Enter Novel Words

You may enter a word that the iTAP software does not recognize. If the word you want is not displayed:

Do This	To
1 Press DELETE () one or more times	delete letters until you see a letter combination that matches the start of the word

Do This	To
2 Press  or 	highlight the letter or letter combination
3 Press SELECT () , then press 	shift the text entry cursor to the left and “lock” the selected word portion
4 Continue to enter letters and highlight letter combinations	spell the word

Punctuation

Press	To
 or 	enter punctuation or other characters as shown in the “Character Chart” on page 45

Capitalization

The first word of a sentence is automatically capitalized, with following words in lowercase.

Press	To
	change the words to initial character capitalized, all uppercase characters, or all lowercase characters

Enter Numbers



Do This	To
1 Enter the first digit and then highlight it	put the iTAP software in number entry mode
2 Press number keys	add digits to the number
3 Press SELECT ()	enter the number at the flashing cursor location

Delete Letters and Words

Place the cursor to the right of the text you want to delete, and then do the following:

Do This	To
Press DELETE ()	delete one letter at a time
Hold DELETE ()	delete the entire message

Menu Feature Descriptions

This chapter describes all of your phone's features in order of the menu map shown on pages 3–4.

Main Menu

RECENT CALLS

Received Calls

 > Recent Calls
> Received Calls

View a list of recently received calls. See page 64.

Dialed Calls

 > Recent Calls
> Dialed Calls

View a list of recently dialed calls. See page 64.

Notepad

 > Recent Calls
> Notepad

Call or store the last number entered on the keypad.
See page 65.

Call Times

 > Recent Calls
> Call Times

View call timers that track time spent on your last call, dialed calls, received calls, all calls since reset, and all calls total. See page 66.

PHONEBOOK

 > Phonebook

Store names and numbers as entries in your phonebook, then call numbers by selecting them from the phonebook list. See page 68.



DATEBOOK**MENU** > **Datebook**

Use the datebook calendar to schedule and review your appointments. See page 79.

RADIO**MENU** > **Media Center**
> **Radio**

Listen to FM radio stations with the optional Motorola Original™ FM Stereo Radio



Headset accessory. This menu feature is displayed only when the FM Stereo Radio Headset is plugged into the accessory connector port on your phone. See page 86.

MESSAGES**MENU** > **Messages**

Adjust message settings, view and manage the various types of messages your phone can receive and/or send:



Create Message Create new text messages. See page 103.

Vicemail Listen to your recorded voice messages. See page 89.

Text Msgs Read and manage text messages. See page 91.

Quick Notes Select and send pre-written messages from the quick notes list. See page 106.

Outbox View all outgoing text messages, delivered and undelivered.

Drafts

Store and edit text messages that you have written but not sent.

SHORTCUTS

 > **Shortcuts**

Create keypad or voice shortcuts to menu features. See page 119.

VOICE NOTES

 > **Voice Notes**

Use the voice key to record messages and phone calls. See page 122.

Note: Recording phone calls is subject to varying state and federal laws regarding privacy and recording of conversations.

BROWSER

 > **Browser**

The micro-browser delivers WAP (Wireless Application Protocol) pages from your service provider directly to your phone. See page 128.

CALCULATOR

 > **Calculator**

Use your phone as a calculator or currency converter. See page 132.

PICTURE VIEWER

 > **Picture Viewer**

View and manage the pictures and animations stored on your phone. See page 77.

GET IT NOW

 > **Get It Now**

Access games and applications on your phone. See page 135.



Settings Menu

RING STYLES

Style

MENU > Ring Styles > Style

Select the ring style your phone uses to notify you of incoming calls, messages, or other events. See page 110.

Style Detail

MENU > Ring Styles > Style Detail

Change details about the current ring style.

Style represents the name of the ring style. See page 110.

My Tones

MENU > Ring Styles > My Tones

Create custom alert tones for your phone. See page 112.

PHONE STATUS

My Tel. Number

MENU > Settings > Phone Status
> My Tel. Number

View, enter, and edit information about your name and phone number.

Active Line

MENU > Settings
> Phone Status
> Active Line

Change the active phone line to send and receive calls from either of the available numbers.

Battery Meter

MENU > Settings > Phone Status
> Battery Meter

View a detailed battery charge meter.



Other Information



- > Settings
- > Phone Status
- > Other Information



View your phone's feature specifications (if available from the service provider).

GET IT NOW TOOLS

Get It Now System



- > Settings
- > Get It Now Tools
- > Get It Now Syste

M



View the Get It Now software version in your phone, and view information about the phone memory available for Get It Now applications. See page 135.

Network Access



- > Settings
- > Get It Now Tools
- > Network Access

Approve Internet connections for Get It Now applications. See page 135.

DNS IP



- > Settings
- > Get It Now Tools
- > Network Access

Set up a valid *domain name service* (DNS) IP address so you can run Get It Now applications that require an active network connection. In many cases, your service provider has already entered this address for you. Contact your service provider to obtain the DNS IP address, if necessary.



Server IP

MENU > Settings
 > Get It Now Tools
 > Network Access

Set up a valid *Server IP* address so you can run Get It Now applications that require an active network connection. In many cases, your service provider has already entered this address for you. Contact your service provider to obtain the DNS IP address, if necessary.

IN-CALL SETUP

Set the features that are active during a call, such as the in-call timer and call answering options.

In-Call Timer

MENU > Settings > In-Call Setup
 > In-Call Timer

Adjust call timer **Display** and **Beep** settings. You can set your timer to beep at a selected interval during your calls. (60 seconds is the default.) You can also turn on or off a display timer during calls as follows:

Time Display the elapsed time for the current call.

Off No in-call timer display.

Answer Options

MENU > Settings > In-Call Setup
 > Answer Options

Turn call answering options on or off:

Multi-Key Answer by pressing any key.

Open to Answer Answer by opening the flip.

SECURITY

Phone Lock

 > Settings > Security
> Phone Lock

Lock and unlock your phone. See page 152.

Lock Application

 > Settings > Security
> Lock Application

Lock and unlock specific phone applications (such as phonebook or datebook). When an application is locked, users must enter the unlock code to use the application.

Restrict Calls

 > Settings > Security
> Restrict Calls

Restrict incoming and outgoing calls. See page 153.

New Passwords

 > Settings > Security
> New Passwords

Change your unlock code (originally set to 1234) or your security code (originally set to 000000). See page 150.

LOCATION

 > Settings
> Location

If your phone has the automatic location information (ALI) feature, it can tell the phone network where you are physically located. See page 139.



OTHER SETTINGS

Initial Setup

MENU > Settings > Other Settings
> Initial Setup

Set many basic phone options:

Time and Date Set the phone's time and date.

Auto PIN Dial Some networks require an authenticating PIN code to allow outgoing calls. Use this feature to automatically dial your PIN.



Auto Redial Use this option to turn on or turn off the automatic redial feature. When you turn on automatic redial, your phone automatically redials calls that fail due to busy network conditions. See page 30.

Backlight Set the amount of time that the display backlight remains on, or turn off the backlight to conserve battery power.

Status Light Turn the status light off (to conserve battery power) and on.

Zoom

Switch between three lines (**Zoom Out**) and two lines (**Zoom In**) of display text.

TTY Setup

Set your phone to operate in one of three TTY modes, or return to normal **Voice** mode. See page 140.



Scroll

Force the cursor to stop or wrap around when it reaches the top or bottom of a list in the display.

Animation

Turn animation off (to conserve battery power) or on. Animation makes your phone's menus move smoothly as you scroll up and down.

Language

Set the language for phone menus.

Contrast

Adjust the contrast setting for your display.



DTMF

Your phone can send a number to the network as dual tone multi-frequency (DTMF) tones. DTMF tones are used to communicate with automated systems that require you to enter a number such as a code, password, or credit card number. Use this option to set DTMF tones to be long, short, or off.

Master Reset

Reset all options back to their original factory settings *except* for the unlock code, security code, and lifetime timer.

Master Clear

Reset all options back to their original factory settings *except* for the unlock code, security code, and lifetime timer, *and* clear all user settings and entries.

Note: This option *erases all user-entered information* stored in your phone's memory, including phonebook and datebook entries. Once you erase the information, it cannot be recovered.

Personalize

MENU > Settings > Other Settings
> Personalize

Set several personal phone options:

Main Menu

Change the order of the main menu. See page 137.

Home Keys

Change the functions of the soft keys and smart key in the idle display. See page 137.

Greeting

Change the text displayed when you turn on your phone.



Banner

Change the text that appears in the idle display.

Note: Banner text does not appear in your phone's external display.

Screen Saver

Change your phone's screen saver image. See page 138.

Connection

MENU > Settings
> Other Settings
> Connection



Connect your phone to a computer or hand-held device to send and receive data and fax calls on the connected device. Specify the format for the next incoming call. You can select **Fax In Only**, **Data In Only**, or **Normal**. See page 153.

Network

MENU > Settings
> Other Settings
> Network



View and adjust your phone's network settings.

Your service provider registers your phone to a network. You can view information about the current network, change how your phone searches for a network, and activate alerts that indicate when a call is dropped or network registration changes.

Car Settings

MENU

- > Settings
- > Other Settings
- > Car Settings



Adjust hands-free car kit settings.

You can set your phone to route calls directly to the car kit when it detects a connection, and automatically answer calls after two rings. See page 142.

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

Headset

MENU

- > Settings
- > Other Settings
- > Headset



Set your phone to automatically answer calls after two rings when connected to a headset. See page 142.



Recent Calls

Viewing Received Calls or Dialed Calls

Your phone keeps a list of the calls you recently received and dialed, even if the calls did not connect. The lists are sorted from newest to oldest entries. The oldest entries are deleted as new ones are added.

Shortcut: Press  to go directly to the dialed calls list from the idle display.

Find the Feature

 > Recent Calls

Press	To
1 	scroll to Received Calls or Dialed Calls
2 SELECT ()	select the list
3 	scroll to an entry
	Note:  means the call connected.
4 	call the entry's number
or	view entry details
VIEW ()	
or	open the Last Calls Menu to perform other procedures as described in the following list
	



The **Last Calls Menu** can include the following options:

Option	Description
Store	Create a phonebook entry with the number in the No. field.
Delete	Delete the entry.
Delete All	Delete all entries in the list.
Send Message	Open a new text message with the number in the To field.
Add Digits	Add digits after the number.
Attach Number	Attach a number from the phonebook or recent call lists, after the highlighted number.
Send Tones	Send the number to the network as DTMF tones, for credit card or password calls.

Using the Notepad

Your phone stores the most recent string of digits entered on the keypad in a temporary memory location called the *notepad*. This can be a phone number that you called, or a number that you entered but did not call. To retrieve the number stored in the notepad:

Find the Feature

MENU > Recent Calls
> Notepad



Press

To



call the number

or



open the **Dialing Menu** to attach a number or insert a special character

or

STORE ()

create a phonebook entry with the number in the **No.** field

Viewing and Resetting Call Timers

Network connection time is the elapsed time from the moment you connect to your service provider's network to the moment you end the call by pressing . This time includes busy signals and ringing.

The amount of network connection time you track on your resettable timer may not equal the amount of time for which you are billed by your service provider. For billing information, please contact your service provider directly.



You can view the following network connection times:

Timer	Description
Last Call	Approximate time spent on last dialed or received call. You cannot reset this timer.
Dialed Calls	Approximate time spent on dialed calls since the last time you reset this timer.
Received Calls	Approximate time spent on received calls since the last time you reset this timer.
All Calls	Approximate time spent on dialed and received calls since the last time you reset this timer.
Lifetime	Approximate time spent on all calls on this phone. You cannot reset this timer.

To view a call timer:

Find the Feature



> Recent Calls
> Call Times

Press	To
1	scroll to the timer you want
2 SELECT ()	view the recorded time

To reset the call timer:

Press	To
1 RESET ()	reset the time (if available)
2 YES ()	confirm the reset



Phonebook

You can store a list of names and phone numbers or email addresses in your phone's electronic phonebook.

To see the names in your phonebook, press

MENU > **Phonebook** from the idle display. Scroll to a name and press **VIEW** () to view details of the phonebook entry as shown below.

Viewing Entry Details

Type indicator identifies number type:

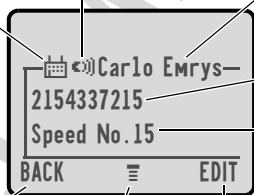
-  Work
-  Home
-  Main
-  Mobile
-  Fax
-  Pager
-  Email

Voice Name indicator indicates a recorded voice name

Entry's **Name**

Entry's **phone number** or **email address**

Entry's speed dial number



Return to list

Press **MENU** to open the **Phonebook Menu**

Edit entry

Note: When you set a distinctive ringer alert for an entry, the **Ringer ID** setting appears below the speed dial number.



Storing a Phonebook Entry

A phone number or email address is required for a phonebook entry. All other information is optional.

Shortcut: Enter a phone number in the idle display, then press **STORE** () to create a phonebook entry with the number in the **No.** field. Go directly to step 3 to continue.

Enter Information

Find the Feature

MENU > Phonebook
MENU > New

Press	To
1 	scroll to Phone Number or Email Address
2 SELECT ()	select the entry type
3 CHANGE ()	select Name
4 keypad keys	enter a name for the entry
5 OK ()	store the name
6 CHANGE ()	select No. or Email
7 keypad keys	enter the phone number or email address
Tip: You can store a PIN code with the phone number. See page 71.	
8 OK ()	store the phone number or email address





Press	To
9 CHANGE ()	select Type
	Note: This option is not available for email entries.
10 	scroll to the number type
11 SELECT ()	select the number type
12 RECORD ()	record a voice name for the entry, if desired
or	
Go to step 13 if you do not want a voice name	
13 	scroll to Speed No.
	The next available speed dial number is assigned to a new phonebook entry.
14 CHANGE ()	select Speed No. if you want to change it
15 keypad keys	enter a different speed dial number, if desired
16 OK ()	store the speed dial number
17 CHANGE ()	select Ringer ID if you want to assign a distinctive ringer alert for the phone number
	Your phone uses the alert to notify you when you receive a call from this phone number. See page 111.

Press	To
18 	scroll to the alert you want
19 SELECT ()	store the ring ID alert
20 SELECT ()	select MORE if you want to create another entry under the same Name
You must use a different Type identifier for each number.	

Complete Phonebook Entry

When you are finished entering information for a phonebook entry:

Press	To
DONE ()	store the entry

Storing a PIN Code With the Phone Number

You can store a PIN code with the phone number for calls that require additional digits (for example, to make a calling card call, or to retrieve voicemail or answering machine messages). Insert one or more of the following



characters in the dialing sequence to ensure that the number dials and connects properly:

Press	To
 > Insert Pause	insert a p (pause) character Your phone dials the preceding digits, waits for the call to connect, then sends the remaining digit(s).
 > Insert Wait	insert a w (wait) character Your phone dials the preceding digits, waits for the call to connect, then prompts you for confirmation before it sends the remaining digit(s).
 > Insert 'n'	insert an n (number) character Your phone prompts you for a number before dialing the call. The number you enter is inserted into the dialing sequence in place of the n character

Note: You can store a maximum of 32 digits per number. Each character counts as one digit.



Recording a Voice Name For a Phonebook Entry

You can record a voice name for a new or existing phonebook entry. A voice name lets you call the phonebook entry using voice dial (see page 74).

Tip: Make your recording in a quiet location. Hold the phone about four inches (10 centimeters) from your mouth, and speak directly into the phone in a normal tone of voice.

Find the Feature

MENU > Phonebook

Do This	To
1 Press 	scroll to the entry
2 Press VIEW ()	view entry details
3 Press EDIT ()	edit the entry
4 Press 	scroll to Voice Name
5 Press RECORD ()	begin recording
6 Press and release the voice key and say the entry's name (in two seconds)	record the voice name
7 Press and release the voice key and repeat the name	confirm the voice name
8 Press DONE ()	store the voice name



Dialing a Phonebook Entry

Use one of the following procedures to call a number (or send a text message to an email address) stored in your phonebook.

Phonebook List

Find the Feature

MENU > Phonebook

Press	To
1 keypad key letter	jump to entries that begin with that letter (optional)
2 	scroll to the entry
3 	make the call

Voice Dial

Do This	To
Press and release the voice key and say the entry's name (in two seconds).	make the call

To speed dial a phonebook entry, see page 33. To call an entry with one-touch dial, see page 33.



Editing a Phonebook Entry

Find the Feature

 > Phonebook

Press	To
1 	scroll to the entry
2 VIEW ()	view entry details
3 EDIT ()	edit the entry

Edit the entry as described on pages 69-71.

Deleting a Phonebook Entry

Find the Feature

 > Phonebook

Press	To
1 	scroll to the entry
2 	open the Phonebook Menu
3 	scroll to Delete
4 SELECT ()	select Delete
5 YES ()	confirm the deletion

Sorting the Phonebook List

You can sort your phonebook list by speed dial number (the standard), name, email address, or voice name.

Note: The voice name sort is identical to the name sort, except that entries with voice name tags appear first.

Find the Feature

 > Phonebook



Press	To
1 	open the Phonebook Menu
2 	scroll to Setup
3 SELECT ()	select Setup
4 	scroll to Sort by
5 CHANGE ()	select Sort by
6 	scroll to Name, Speed No., Voice Name, or Email
7 SELECT ()	select the sort order

Synchronizing with TrueSync Software



You can synchronize phonebook entries between your phone and computer or hand-held device with Starfish TrueSync[®] software, a Motorola accessory product. See the TrueSync user guide for more information.

Note: TrueSync software is designed to synchronize with basic features of many popular Personal Information Management (PIM) software and hardware products.



Picture Viewer



Your phone contains pictures and animations that you can insert into text messages, and use as screen saver images.

Find the Feature

MENU > Picture Viewer

Press	To
1	scroll to the picture
2 SELECT (	view the picture
3 or	view the previous/next picture
or	
DETAILS (	view picture information
or	
MENU	open the Picture Viewer menu to perform other procedures as described in the following list

The **Picture Viewer** menu can include the following options:

Option	Description
Details	View picture information.



Option	Description
Set as Screen Saver	Set the picture as your phone's screen saver image.
Rename	Rename the picture.
Delete	Delete the picture.

To adjust your phone's screen saver image, see page 138.



Datebook

The datebook is a calendar that lets you schedule and organize events such as appointments and meetings. You can set the datebook to send a reminder alarm for specific events.

Note: You must set the correct time and date on your phone to use the datebook.

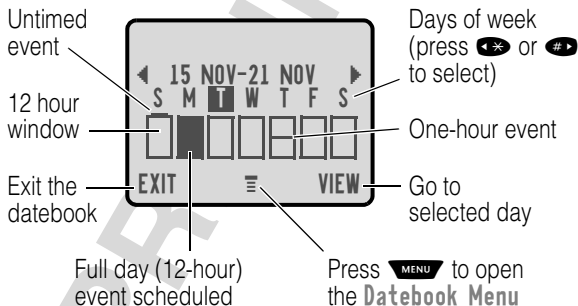
To schedule or review datebook events:

Find the Feature

MENU > Datebook

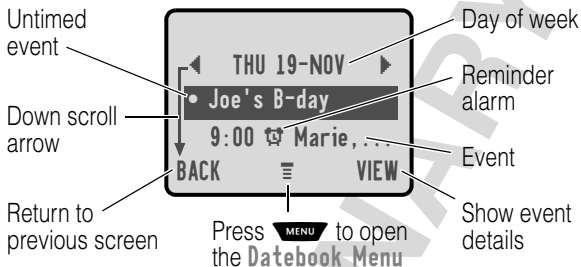
Week View

The datebook initially displays a calendar for the week. Lines or filled boxes indicate scheduled events.



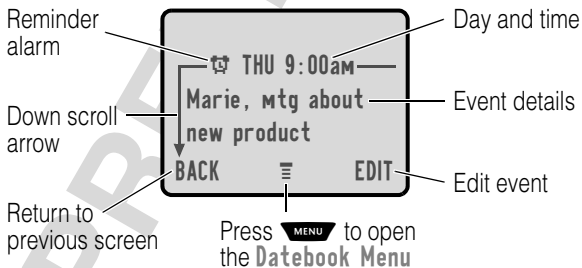
Day View

Select a day and press **VIEW** () to see the day's events.



Event View

Select an event and press **VIEW** () to see event details.



Adding a Datebook Event

A title is required for a datebook event. All other information is optional.

Note: You must create an event to use the reminder alarm.

Find the Feature

 > **Datebook** > *day*
 > **New**

Press	To
1 CHANGE ()	select Title
2 keypad keys	enter a title for the event
3 OK ()	store the event title
4 	scroll to other fields and enter information as necessary You can set start time, duration, date, repeat interval, and reminder alarm.
5 DONE ()	store the event

Changing Event Information

Find the Feature

 > **Datebook**

Press	To
1  * or # 	scroll to the day
2 VIEW ()	display the day view
3 	scroll to the event
4 VIEW ()	display the event view



Press	To
5 EDIT ()	edit the event
6 	scroll to the information you want to change
7 CHANGE ()	edit the information
8 keypad keys	enter new information
9 DONE ()	store the information

Copying an Event

Find the Feature

 > Datebook

Press	To
1  or 	scroll to the day
2 VIEW ()	display the day view
3 	scroll to the event
4 	open the Datebook Menu
5 	scroll to Copy
6 SELECT ()	copy the event
7 YES ()	confirm the copy
	Your phone assumes you want to change the date, and displays the Date field.
8 keypad keys	enter date information
9  ()	move to month, day, and year
10 DONE ()	save the copy of the event
11 	scroll to and edit event information, if necessary



Press	To
12 DONE ()	store the information

Deleting an Event

Find the Feature  > **Datebook**

Press	To
1  or 	scroll to the day
2 VIEW ()	display the day view
3 	scroll to the event
4 	open the Datebook Menu
5 	scroll to Delete
6 SELECT ()	select Delete
7 YES ()	confirm the deletion

Alarm Clock

Your phone includes an alarm clock that you set and activate from the datebook week view or day view.

Notes:

- The alarm clock setting does *not* appear in the datebook day view, and is not synchronized with datebook settings
- Your phone must be turned on to use the alarm



Set the Alarm

Find the Feature

MENU > Datebook
MENU > Alarm Clock

Press	To
1 SELECT (➤)	edit the alarm settings
2 CHANGE (➤)	select Start
3 keypad keys	enter the alarm activation time
4 DONE (➤)	store the time
5 	scroll to other fields and enter information as necessary You can set date, title, repeat interval, and an alarm clock indicator.
6 CHANGE (➤)	select Ringer
7 	scroll to On to set the ringer or Off to turn off the ringer
8 DONE (➤)	store the alarm setting

Turn Off the Alarm

When the alarm is activated, your phone rings or vibrates (depending on the alarm setting for the current ring style), and displays the time and alarm title.



The alarm is programmed to ring for 30 minutes, or until you perform one of the following operations.

Press	To
EXIT () or 	turn off the alarm
DELAY ()	turn off the alarm for 8 minutes The alarm is reactivated at the end of 8 minutes.



Radio



You can use your phone to listen to FM radio stations when the optional Motorola Original™ FM Stereo Radio Headset accessory is plugged into the phone's accessory connector port.

Turning the Radio On and Off

Press	To
Radio ()	turn the radio on and off

Alternatively, you can use the following procedure:

Find the Feature  > Radio > On or Off

Press	To
1 	open the menu
2 	scroll to Radio
3 On () or Off ()	turn the radio on or off

Note: The **Radio** menu feature and soft key options appear only when the FM Stereo Radio Headset is plugged into the accessory connector port.

Tuning a Station

Do This	To
Press 	scroll to the next frequency
or	
Press and hold 	scroll to the next available stereo station



Storing a Preset

Do This	To
Press and hold a number key ( to )	assign its preset number to the tuned station

Selecting a Preset

Press	To
a number key ( to )	tune the station stored at the preset location

Sending and Receiving Calls With the Radio On

Your phone rings or vibrates as usual to notify you of an incoming call, message, or other event.



Do This	To
Press IGNORE ()	ignore the call
Press ANSWER () or Press the button on the FM Stereo Radio Headset microphone	answer the call Note: You can use the FM Stereo Radio Headset microphone to converse with the other party during a call

To end the call and resume the FM broadcast:

Do This	To
Press  or Press and hold the button on the FM Stereo Radio Headset microphone	end the call

Turn the radio off before dialing outgoing calls from the phone keypad. You do not have to turn off the radio to dial emergency numbers, or numbers selected from your phonebook or recent call lists.

Tip: To dial a recently called number, press  or the button on the FM Stereo Radio Headset microphone to go to the dialed calls list. For more information, see page 64.

Messages—Voicemail



You can listen to your voicemail messages by calling your network voicemail phone number. Voicemail messages are stored on the network—not on your phone.

Storing Your Voicemail Number

Storing your voicemail number on your phone makes it easy for you to listen to new voicemail messages. In many cases, your service provider has already done this for you.

Find the Feature

MENU > Messages
MENU > VoiceMail Setup

Press

1 keypad keys

To

enter your voicemail number

Tip: You can store your PIN code with the voicemail number. See page 71.

2 **OK** ()

store the number

Your service provider additionally may store your voicemail number as phonebook entry number 1, so you can use one-touch dial to listen to your voicemail messages. If necessary, see page 69 to store your voicemail number for one-touch dial access.



Receiving a Voicemail Message

When you receive a voicemail message, your phone displays the  (voice message waiting) indicator and a **New VoiceMail** notification.

Press	To
CALL ()	listen to the message



If reminders are turned on, your phone sends a reminder at intervals until you close the new message notification, listen to the message, or turn off your phone.

Listening to a Voicemail Message

Find the Feature  > Messages > VoiceMail

The phone calls your voicemail number. If no voicemail number is stored, your phone prompts you to store one.

Shortcut: If your voicemail number is also stored as phonebook entry number 1, you can press and hold  to listen to your voicemail message(s).

Turning Off the Voice Message Waiting Indicator

To clear the  (voice message waiting) indicator:

Find the Feature  > Messages
 > Clear Count

Messages—Text



Text messages are brief messages that you can send and receive.

Quick notes are pre-written text messages that you can incorporate into a message and send quickly.

Your text message inbox must be set up *before* you can send and receive messages. The number of messages the inbox can hold depends on the length of the messages, and the number of other messages and drafts stored on your phone.

Setting Up the Text Message Inbox



Note: In many cases, your service provider has already set up the text message inbox for you.

Find the Feature

MENU > Messages
MENU > Inbox Setup

Press	To
1 CHANGE ()	change the Cleanup setting
2 	scroll to the number of days you want to keep messages in the inbox, or the number of messages you want to keep
3 SELECT ()	select the cleanup setting
4 DONE ()	save the inbox settings

Receiving a Text Message

Note: Your text message inbox must be set up before you can receive text messages. See page 91.

When you receive a text message, your phone displays the  (message waiting) indicator and a **New Inbox Message** notification, and gives an alert. If you receive a downloaded picture, your phone displays **1 New Picture Received**, and you can store or delete the picture.

Press	To
READ ()	open the message



If reminders are turned on, your phone sends a reminder at regular intervals until you close the new message notification, read the message, or turn off your phone.

When your phone displays **Memory is Full!**, you must delete some existing messages to receive new messages.

Reading, Locking, or Deleting a Text Message

Messages in the text message inbox are sorted from newest to oldest. The oldest messages are deleted automatically as specified by the inbox cleanup setting (see page 91). If you want to save a message, you should lock it to prevent it from being deleted during cleanup.

Find the Feature



> Messages > Inbox

Press	To
1 	scroll to the message
	The following indicators show message status:
	 = unread
	 =unread (with attachment)
	 = unread and urgent
	 = unread and urgent (with attachment)
	 = read
	 = read (with attachment)
	 = read and locked  =read and locked (with attachment)
2 READ ()	open the message
3 BACK ()	close the message
or	
DELETE ()	delete the message
or	
	open the Inbox Menu to perform other procedures as described in the following list

The **Inbox Menu** can include the following options:

Option	Description
Create Message	Open a new text message.





Option	Description
Call Back	Call the number in the message header or embedded in the message.
Go To	Launch the micro-browser and go to a Web address (URL) embedded in the message.
Reply	Open a new text message, with the sender's Reply To number or email address in the To field.
Forward	Open a copy of the text message, with an empty To field.
Store	Display a list of items that can be stored, including the sender's number or email address, and a selected image or sound file.
Play	Play a sound file in the message.
Lock/Unlock	Lock or unlock the message.
Delete	Delete the message.
Delete All	Delete all inbox messages.
Inbox Setup	Open the text message inbox setup menu.

Storing Pictures, Animations, and Sounds

Text messages that you receive can contain pictures, animations, and sounds. Pictures and animations are displayed as you read the message. A sound begins

playing when you select the  (sound file) indicator. You can store these embedded object files on your phone, and use them as screen saver images and alert tones.

Store a Picture or Animation File

Press	To
1 	highlight the picture or animation in the message
2 	open the Text Msg Menu
3 	scroll to Store
4 SELECT ()	display a list of items you can store
5 	scroll to File Attachment
6 SELECT ()	display the file name
1 STORE ()	view storage options
2 	scroll to Store Only , or Set as Screen Saver
3 SELECT ()	store the file and, optionally, set it as your screen saver image

For more information about using pictures and animations, see pages 77, and 138.



Store a Sound File

You can store a sound file, and set it as an event alert.

Press	To
1 	highlight the  (sound file) indicator in the message
2 	open the Text Msg Menu
3 	scroll to Store
4 SELECT ()	display a list of items you can store
5 	scroll to File Attachment
6 SELECT ()	display the file name
7 STORE ()	view storage options
8 	scroll to Store Only or Set As Ring Tone
9 SELECT ()	select the option If you select Store Only , the procedure is complete. If you select Set As Ring Tone , your phone displays Set As Which? , and lists the events for which you can set an alert.
10 	scroll to the event
11 SELECT ()	store the sound and set it as the event alert



For more information about using sound files, see pages 110 and 112.

Reading Browser Alerts



Your network's Web server can send you *browser alerts* that you can read in your micro-browser.

When you receive a browser alert message, your phone displays the  (message waiting) indicator and a **New Browser Message** notification, and gives an alert.

Press	To
GO TO ()	launch the micro-browser and view the message
or	
EXIT ()	close the new message notification

To view your browser alert messages at any time:

Find the Feature

 > More > Messages
> Browser Alerts

Press	To
1 	scroll to a message
2 SELECT ()	open the message



Reading Information Service Messages



Information service messages are broadcast messages that you can receive, such as stock updates or news headlines.

Your information services message inbox must be set up *before* you can receive information services messages. The number of messages the inbox can hold depends on the length of the messages, and the number of other messages and drafts stored on your phone.

Set Up the Information Services Message Inbox



Note: In many cases, your service provider has already set up the information services message inbox for you.

Find the Feature

MENU > More > Messages
MENU > Info Srvc Setup

Press	To
1 CHANGE ()	change the Service setting
2 	scroll to the Yes or No to turn cell broadcasts on or off
Note: Your phone may provide an additional Browser Services option on this menu. See page 131.	
3 SELECT ()	select the service setting

Press	To
4 SELECT ()	select Active Channels to set the subscription channels
5 	scroll to an active channel that you want to disable, or scroll to [New Channel1] to add a new channel
6 BACK ()	return to the cell broadcast menu when you are finished setting subscription channels
7 CHANGE ()	change the Quick View channel
8 keypad keys	enter the quick view channel number
9 OK ()	store the quick view channel number
10 CHANGE ()	change the Save Q. View setting
11 	scroll to Yes or No to set whether you want to save single-line quick view messages in the inbox
12 SELECT ()	store the save setting
13 CHANGE ()	change the Cleanup setting
14 	scroll to the number of days you want to keep messages in the inbox, or the number of messages you want to keep



Press	To
15 DONE ()	save the information services message inbox settings

Receive an Information Services Message

Note: Your information services message inbox must be set up before you can receive information services messages. See page 98.

When you receive a lengthy information services message, your phone displays the  (message waiting) indicator and a **New Message** notification, and gives an alert.

Press	To
READ ()	open the message (or your information services message inbox if there are multiple messages)

If the new message is a short quick view message, it appears directly in your display. See page 102.

If reminders are turned on, your phone sends a reminder at regular intervals until you close the new message notification, read the message, or turn off your phone.

When your phone displays **Memory is Full!**, you must delete some existing messages from your inbox, outbox, or drafts folder to receive new messages.

Read, Lock, or Delete an Information Services Message

Messages in the information services message inbox are sorted from newest to oldest. The oldest messages are deleted automatically as specified by the inbox cleanup setting (see page 98). If you want to save a message, you should lock it to prevent it from being deleted during cleanup

Press	To
1 	scroll to the message
	The following indicators show message status:
	 = unread
	 = read
	 = read and locked
2 READ ()	open the message
3 SAVE ()	close the message
or	
DELETE ()	delete the message
or	
	open the Info Srvc Menu to perform other procedures as described in the following list



The **Info Srvc Menu** can include the following options:

Option	Description
Call Back	Call the number in the message header or embedded in the message.
Go To	Launch the micro-browser and go to a Web address (URL) embedded in the message.
Forward	Open a copy of the message, with an empty To field.
Lock/Unlock	Lock or unlock the message.
Store Number	Open a new phonebook entry with the message's embedded number in the No. field.
Delete	Delete the message
Delete All	Delete all inbox messages
Store Address	Open a new phonebook entry with the message's embedded email address in the Email field.
Setup	Open the information services message inbox setup menu

Read and Save a Quick View Message

Quick view messages are short information service messages that appear directly in your phone's idle display.

Your phone alerts you when you receive a new quick view message.

Do This	To
Read the message and press 	read and delete the quick view message

If the message is more than two lines, you can press **Save** () to save it in your information services inbox. To automatically save quick view messages, see page 98.

Note: Broadcast or browser services send quick view messages on quick view channels. To set up a quick view channel, see page 98.

Sending a Text Message

You can send a text message to one or more recipients. You can manually enter each recipient's phone number or email address, or select numbers/addresses from the phonebook or recent call lists.

Note: When you manually enter numbers and/or email addresses, you must insert a space between each entry. Press  one time, wait for the space to appear, then enter the next number or email address.

Find the Feature

 > Messages
> Create Message

Press	To
1 CHANGE ()	select To





Press	To
2 keypad keys	enter one or more phone numbers and/or email addresses Tip: Press 1 to insert a space between each number/address that you enter manually.
or	
BROWSE ()	select numbers/addresses from the phonebook or recent call lists as follows:
a 	highlight Phonebook , Received Calls , or Dialed Calls
b SELECT ()	select the list
c 	highlight a number/address
d ADD ()	add the number/address to the list of message recipients
e DONE ()	return to the message editor when you are finished
3 OK ()	store the numbers/addresses
4 CHANGE ()	select Msg

Press	To
5 keypad keys	enter the message
Note: Message length is limited. As you near the limit, a display counter shows how many characters are left.	
or	
BROWSE ()	select and insert a quick note message (see page 106)
6 keypad keys	enter the message
Note: Message length is limited. A display counter cycles between the number of pages you have written (number preceded by a *), and the number of characters left on the current page. Network charges are based on the number of pages sent.	
or	
BROWSE ()	select and insert a quick note message (see page 106)
7 OK ()	store the message
8 CHANGE ()	select Priority
9 	scroll to the priority you want
10 SELECT ()	set the priority
11 CHANGE ()	select Call





Press	To
12 keypad keys	enter a number for the recipient to call back
13 OK ()	store the number
14 DONE ()	finish the message Your phone displays the total pages in the message.
15 YES () or NO ()	send the message cancel the message or save it in the drafts folder

Sending a Quick Note Text Message

Quick notes are pre-written text messages that you can incorporate into a message and send quickly (for example, *Meet me at ...*). You can also create new quick notes.

Find the Feature

 > Messages
> Quick Notes

Press	To
1 	scroll to the quick note
2 READ () or 	read the quick note open the Quick Note Menu to perform other procedures as described in the following list

The **Quick Note Menu** can include the following options:

Option	Description
New	Create a new quick note.
Edit	Edit the quick note.
Delete	Delete the quick note.
Send	Open a new message with the quick note in the Msg field.

Inserting Pictures, Animations, and Sounds

You can insert pictures, animations, and sounds into a text message as you compose it.

Insert a Picture or Sound File

Enter your message as usual. When you come to a spot where you want to insert a picture or sound file:

Press	To
1 	open the Message Menu
2 	scroll to Insert
3 SELECT ()	display a list of items you can insert
4 	scroll to Picture, Animation, or Sound
5 SELECT ()	select the file type
6 	highlight the file you want



Press	To
7 VIEW () or PLAY ()	preview the file
8 INSERT ()	insert the file

Notes: Inserted animations or graphics appear in the message, while sound files are represented by a .

- Your phone may allow only predefined images and sounds in a message. These files are identified by a  (predefined object) indicator.
- You can insert up to fifteen pictures in a message

View or Delete an Inserted File

Press	To
1 	place the cursor to the right of the file type indicator
2 	highlight the file type indicator
3 SELECT () or DELETE ()	view or play the inserted file delete the inserted file



Viewing the Status of Sent Text Messages

Messages that you send are stored in the outbox.

Find the Feature

MENU > Messages > Outbox

Messages in the outbox are sorted from newest to oldest. The following indicators show message status:

» = sending in progress

✉ = sent

✖ = sending failed



Ring Styles

Your phone rings or vibrates to notify you of an incoming call or other event. This ring or vibration is called an *alert*. You can select one of five different ring styles:

 = loud ring

 = soft ring

 = vibrate

 = vibrate and ring

 = silent

The ring style indicator in the display shows the current ring style (see page 23).

Each ring style contains settings for specific event alerts, ringer ID, and ringer and keypad volume.

Selecting a Ring Style

Find the Feature



> Settings

> Ring Styles > Style

Press

To

1



scroll to the ring style

2

SELECT ()

select the ring style

Customizing a Ring Style

Change Style Settings

You can change the alerts that notify you of the following events: incoming calls, text messages, voicemail



messages, data calls, fax calls, alarms, and reminders. Any changes you make are saved to the current ring style.

Find the Feature

 > Settings
> Ring Styles
> Style Detail

Note: *Style* represents the current ring style.

Press	To
1 	scroll to the event
2 CHANGE ()	select the event
3 	scroll to the alert you want
4 SELECT ()	select the alert

Activate and Deactivate Ringer IDs

When ringer IDs are turned on, your phone uses distinctive ringer alerts to notify you of incoming calls or messages from specific entries stored in your phonebook. To assign a ringer ID to a phonebook entry, see page 69.

Find the Feature

 > Settings
> Ring Styles
> Style Detail

Note: *Style* represents the current ring style.



Set Ringer or Keypad Volume

Find the Feature

MENU > Settings
> Ring Styles
> Style Detail

Note: *Style* represents the current ring style.

Press	To
1 	scroll to Ring Volume or Key Volume
2  or 	scroll to the desired volume
3 OK ()	confirm the new volume

Creating Alert Tones

You can create and store custom alert tones on your phone. The tones appear in the list of available alerts.

Create a Tone

Find the Feature

MENU > Settings
> Ring Styles
> My Tones

Press	To
1 	scroll to [New Tone]
2 SELECT ()	select [New Tone]
3 CHANGE ()	select Notes
4 keypad keys	enter notes (see page 113)
5 OK ()	store the notes
6 CHANGE ()	select Name



Press	To
7 keypad keys	enter a name for the tone
8 OK ()	store the name
9 DONE ()	store the tone

Enter Notes

Use the keypad keys to enter each note. Press a key multiple times to cycle through its notes or options (pitch, octave, or length). The default setting for a new tone is a quarter note in octave two.

Key	Display	Description
	1	set octave one
	2	set octave two
	3	set octave three
	A	note A
	B	note B
	C	note C
	D	note D
	E	note E
	F	note F
	G	note G
	R	rest
	#	sharp
	b	flat





Key	Display	Description
0 ops	q	quarter note or rest
	h	half note or rest
	w	whole note or rest

Enter a note as follows:

Task	Action
Change the octave	Set the new octave (1, 2, or 3) <i>before</i> selecting the note. The octave applies to all following notes until you change it again.
Select the note (required)	Press a keypad key.
Change a note to a sharp or flat	Enter a sharp or flat (# or b) <i>after</i> selecting the note. Some sharps and flats are played as standard notes. For example, B# is the same as C. Press to scroll to valid notes when entering a new note.
Change a note's length	Set the new length (q, h, or w) <i>after</i> selecting the note. The length applies to all following notes until you change it again.

Task	Action
Add a rest	Enter one or more rests (R characters) as needed in the tone sequence. Set the length of the rest by entering a q, h, or w character <i>after</i> the rest, just as you would for a note.
Listen to a new tone as you compose it	Press MENU to enter the Compose Menu , and select Play All to play the notes you have entered.

Example

Press the following keys to play this sequence of notes and rests in octave three: **C** (quarter note), **E flat** (quarter note), **half rest**, and **G** (whole note):

Press	To	Display
1 1 EQ 1 EQ 1 EQ	set octave three	3
2 2 ABC 2 ABC 2 ABC	enter a quarter note C	C
3 3 DEF 3 DEF 7 FGHS 7 FGHS	enter a quarter note E flat	E_b
4 4 CHI 4 CHI 0 OPR 0 OPR	enter a half rest	R_h





Press	To	Display
5    	enter a whole note G	Gw

Play a Tone

Find the Feature

MENU > Settings
> Ring Styles
> My Tones

Press	To
1 	scroll to the tone
2 MENU	open the My Tones Menu
3 	scroll to Play
4 SELECT ()	select Play
5 PLAY ()	play the tone again
or	
CANCEL ()	return to my tones list

Edit a Tone

You cannot edit the predefined alert tones included with your phone. To edit a custom alert tone:

Find the Feature

MENU > Settings
> Ring Styles
> My Tones

Press	To
1 	scroll to the tone
2 EDIT ()	open the tone details

Press	To
3 	scroll to the item you want to edit (Name or Notes)
4 CHANGE ()	select the item
5 keypad keys	enter new text or notes
6 OK ()	store the new text or notes
7 DONE ()	save your changes

Delete a Tone

You cannot delete the predefined alert tones included with your phone. To delete a custom alert tone:

Find the Feature

 > **Settings**
> **Ring Styles**
> **My Tones**

Press	To
1 	scroll to the tone
2 	open the My Tones Menu
3 	scroll to Delete
4 SELECT ()	select Delete
5 YES ()	confirm the deletion

Send and Receive Tones

You can send and receive ring tones attached to text messages. To insert a tone in a text message, see page 107. To download a tone from a text message, see page 94.



Setting Reminders

A reminder is an alert that rings or vibrates at regular intervals to notify you about a voicemail or text message that you have received.

Find the Feature



- > Settings
- > Ring Styles
- > Style Detail
- > Reminders

Note: *Style* represents the current ring style.

Press	To
1 	scroll to Beep or Vibrate to set the reminder alert type, or Off to turn off all reminders
2 SELECT ()	select the reminder alert



Shortcuts

Your phone includes several standard shortcuts. You can create additional shortcuts to frequently used menu items.

Standard Shortcuts

The following shortcuts are pre-programmed in your phone. You cannot edit or delete these shortcuts.

Do This	To
Press  , then press and hold  (within two seconds)	zoom in/out on your phone display
Press  	see your phone number
Press 	go to the dialed calls list
Press 	exit the menu system

Creating a Shortcut

You can create a keypad shortcut *plus* an optional voice shortcut to a menu item. A voice shortcut takes you directly to the menu item when you say the shortcut name.

Tip: Make your recording in a quiet location. Hold the phone about four inches (10 centimeters) from your



mouth, and speak directly into the phone in a normal tone of voice.

Do This	To
1 Press 	enter the menu system
2 Press 	scroll to the menu item
3 Press and hold 	open the shortcut editor
4 Press YES ()	view shortcut options
5 Press CHANGE ()	change the keypad shortcut number
or	
Press DONE ()	select the default keypad shortcut number
or	
Press 	scroll to Voice to assign a voice shortcut
6 Press RECORD ()	begin recording
7 Press and release the voice key and say the shortcut's name (in two seconds)	record the shortcut name
8 Press and release the voice key and repeat the name	confirm the shortcut name
9 Press DONE ()	store the shortcut name



Using Shortcuts

Use a Keypad Shortcut

Press	To
1 	open the main menu
2 a number key	go to the menu item with that shortcut number

Select a Shortcut From the List

Find the Feature  > *Shortcuts*
> *shortcut name*

Use a Voice Shortcut

Do This	To
1 Press 	open the menu
2 Press and release the voice key and say the shortcut's name (in two seconds)	go to the menu item with that shortcut name



Voice Notes



You can use the voice note feature to record personal messages and phone calls on your phone.

Recording a Voice Note

Use this procedure to record a voice note from the idle display, or to record a phone call in progress. Your phone plays an alert tone to notify the other party that the call is being recorded.

Note: Recording phone calls is subject to varying state and federal laws regarding privacy and recording of conversations.

Tip: Make your recording in a quiet location. Hold the phone about four inches (10 centimeters) from your mouth, and speak directly into the phone in a normal tone of voice.

Do This	Result
1 Press and hold the voice key for the duration of the recording.	The phone sounds an alert tone and begins recording.
2 Speak your voice note.	The phone records the voice note.
3 Release the voice key to stop recording.	The phone displays the voice note number and total recording time.

Viewing the Voice Notes List

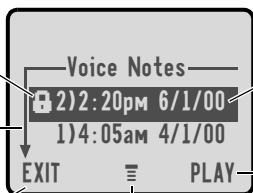
Find the Feature

MENU > Voice Notes

Locked
voice note

Down scroll
arrow

Return to
previous screen



Time/date
recorded

Play the
highlighted
voice note

Press **MENU** to open the
Voice Notes Menu



Voice Notes

Playing a Voice Note

Find the Feature

MENU > Voice Notes

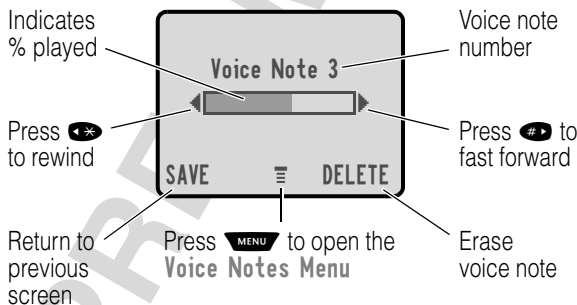
Press	To
1 	scroll to the voice note
2 PLAY ()	play the voice note

When you connect an optional Motorola Original™ headset or FM Stereo Radio Headset accessory to your phone, playback is automatically routed to the headset.

Tip: You can play a voice note while taking a call. It will not be transmitted to the other party.

Playback Screen

The playback screen is displayed as the voice note plays.



Voice Note Controls

Stop playback and go to **Voice Notes Menu**.

Stop playback and return to voice notes list.

Raise or lower playback volume of voice note.

Stop playback and scroll up/down to next voice note.

Rewind three seconds, resume playing.

Press and hold to rewind to the beginning.

When playback is complete, press to restart.

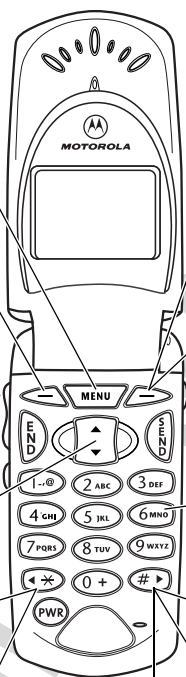
If voice note is unlocked, stop playback and display **Delete Voice Note?**

If voice note is locked, stop playback and unlock voice note.

Press any number to alternately stop and start playback.

Fast forward three seconds, resume playing.

Press and hold to fast forward to end.



Voice Notes

Locking and Unlocking a Voice Note



Lock a voice note to prevent it from being deleted. You must unlock a voice note to delete it.

Find the Feature

MENU > Voice Notes

Press	To
1 	scroll to the voice note
2 MENU	open the Voice Notes Menu
3 	scroll to Lock or Unlock
4 SELECT ()	lock or unlock the voice note

To lock or unlock a voice note during playback:

Press	To
1 MENU	open the Voice Notes Menu
2 	scroll to Lock or Unlock
3 SELECT ()	lock or unlock the voice note

Playback stops when you lock or unlock a voice note. Press any number key to resume playback.

Deleting a Voice Note

Find the Feature

MENU > Voice Notes

Press	To
1 	scroll to the voice note
2 	open the Voice Notes Menu
3 	scroll to Delete or Delete All
4 SELECT ()	select the highlighted option
5 YES ()	confirm the deletion
or	
NO ()	cancel deletion

Notes:

- You cannot delete a locked voice note.
- You cannot recover a deleted voice note.



Micro-Browser



The micro-browser lets you access Web pages and Web-based applications on your phone. Contact your service provider to set up access, if necessary.



Starting a Micro-Browser Session

Find the Feature

MENU > Browser

Find the Feature

MENU > Browser

Press

To

1

scroll to a bookmark, service, or application

2 **SELECT** ()

select the item

Shortcut: If you open a text message with a Web address (URL) embedded in it, you can press **MENU** > **Go To** to launch the micro-browser and go directly to the URL.

If you are unable to establish a network connection with the micro-browser, contact your service provider.

Interacting With Web Pages

Press	To
	scroll through text, or highlight a selectable item
SELECT ()	select the highlighted item
	call the highlighted phone number from the micro-browser
keypad keys, followed by OK ()	enter information Tip: Press DELETE () to delete one letter at a time if you make a mistake.
BACK ()	go back to the previous page
MENU ()	open the Browser Menu

Downloading Pictures, Animations, and Sounds

You can download a picture, animation, or sound from a Web page by selecting its link. A picture or animation is displayed when downloading is complete. A sound begins to play when downloading is complete.

You can store these object files on your phone, and use them as screen saver images and alert tones.



Store a Picture or Animation File

Press	To
1 STORE ()	view storage options
2 	scroll to Store Only , or Set as Screen Saver
3 SELECT ()	store the file and, optionally, set it as your screen saver image

For more information about using pictures and animations, see pages 77 and 138.

Store a Sound File

You can store a sound file, and set it as an event alert.

Press	To
1 STORE ()	view storage options
2 	scroll to Store Only or Set As Ring Tone
3 SELECT ()	select the option If you select Store Only , the procedure is complete. If you select Set As Ring Tone , your phone displays Set As Which? , and lists the events for which you can set an alert.
4 	scroll to the event



Press	To
5 SELECT ()	store the sound and set it as the event alert

For more information about using sound files, see pages 110 and 112.

Running the Micro-Browser in the Background

Some phones are set up to run a micro-browser session in the background when the phone registers with a network. This allows your phone to display information services messages delivered to your phone by your service provider (such as stock updates, news updates, or sports scores). These types of services typically are available through subscription from your service provider.

Turn a Background Micro-Browser Session On or Off

Find the Feature

 > More > Messages
 > Info Srvc Setup
 > Browser Services

Press	To
1 	toggle the background micro-browser setting to On or Off
2 SELECT ()	select the new setting



Calculator

You can use your phone as a calculator and currency converter.

Calculating Numbers

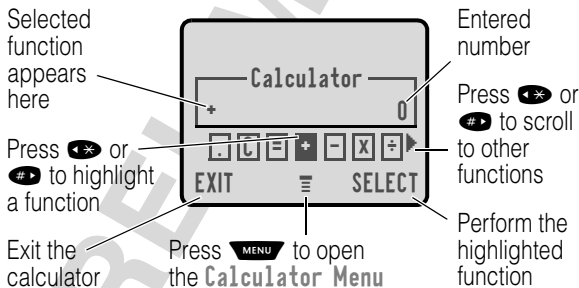
Find the Feature

MENU > **Calculator**

Press	To
1 number keys	enter a number
2  * or  #	highlight a calculator function
3 SELECT ()	perform the function



Calculator



The calculator can perform the following functions:

Function	Description
.	Insert a decimal point
C	Clear the calculation
CE	Clear entry (replaces C when you enter subsequent values in a calculation)
=	Calculate the result
+	Add
-	Subtract
x	Multiply
÷	Divide
%	Divide the displayed value by 100
±	Change the entry's sign (positive/negative)
\$	Calculate the exchange rate
MS	Store the value in memory (overwrites current stored value)
MC	Clear the value stored in memory
MR	Replace the displayed value with the value stored in memory



Converting Currency

The currency converter works just like the calculator, but uses the \$ (currency) function:

Find the Feature



> Calculator



> Exchange Rate

Press	To
1 number keys	enter the exchange rate
2 OK ()	store the exchange rate
3 number keys	enter the amount to convert (amount to multiply by the exchange rate)
4  * or # 	highlight the \$ function
5 SELECT ()	perform the conversion



Get It Now



Your phone may contain additional applications that add features and functionality to your phone by downloading them. Downloaded games and applications are stored in the **Get It Now** folder on your phone.

Launching an Application

Find the Feature

MENU > Get It Now

Press	To
1 	scroll to the application
2 SELECT ()	launch the application, or open the list of applications in a suite
3 	scroll to the application you want, if necessary
4 SELECT ()	launch the application

Editing Network Connection Settings

Your phone must be set up with a valid *domain name service* (DNS) IP address and a Server IP address before you can run applications that require an active network connection. In many cases, your service provider has already entered these addresses for you. Contact your service provider to obtain the addresses, if necessary.



Using Control Keys

Your phone's keys perform the following functions in a application.

Key	Function
	Move up, down, left, or right in a game.
	End the application.

Analyzing or Deleting an Application

Find the Feature

 MENU

> Get It Now

> Options > application

You can choose to analyze or delete the application.



Adjusting Your Settings

Reordering Menu Items

You can reorder the items in your phone's main menu.

Find the Feature

MENU > Settings
> Other Settings
> Personalize
> Main Menu

Press	To
1 	scroll to a menu item
2 GRAB ()	grab the menu item
3 	move the item to a new location in the menu
4 INSERT ()	insert the menu item

Customizing a Soft Key Function

You can relabel the soft keys ( and ) and the smart key to access different menu items from the idle display.

Find the Feature

MENU > Settings
> Other Settings
> Personalize > Keys





Press	To
1	scroll to Left, Right, or Smart
2 CHANGE ()	select the key
3	scroll to the new key function
4 CHANGE ()	confirm the new function

Screen Saver

You can set a picture or an animation as a screen saver image in your phone's idle display. The image is displayed when no activity is detected for a specified time period.

The screen saver image is shrunk to fill the display, if necessary. An animation repeats for one minute, then the first frame of the animation is displayed.

Find the Feature

MENU > **Settings**
 > **Other Settings**
 > **Personalize**
 > **Screen Saver**

Press	To
1	scroll to Picture
2 CHANGE ()	open the picture viewer
3 DEF	scroll to a picture/animation
	Scroll to (None) to turn off the screen saver image.
4 SELECT ()	select the image
5	scroll to Delay
6 CHANGE ()	set the delay interval

Press	To
7 	scroll to the inactivity interval that triggers the screen saver
8 SELECT ()	confirm the delay setting
9 DONE ()	save screen saver settings

Hiding or Showing Location Information

Your phone can use the *automatic location information* (ALI) feature to tell the network where you are physically located.



When ALI is set to **Location On**, your phone displays the  (ALI on) indicator. Services may use your known location to provide useful information (for example, driving directions, or the location of the nearest bank). Your phone prompts you when the network or a service asks for your location. You can refuse at this point.

When ALI is set to **911 Only**, your phone displays the  (ALI off) indicator, and the phone does not send location information unless you call the emergency phone number (such as 911).

Press	To
1 	scroll to Location On or 911 Only
2 SELECT ()	select the setting



TTY Operation



You can use an optional TTY device with your phone to send and receive calls. You must plug the TTY device into the phone's headset jack and set the phone to operate in one of three TTY modes.

Notes:

- Use a TSB-121 compliant cable (provided by the TTY manufacturer) to connect the TTY device to your phone.
- Set the phone volume to level 4 (middle setting) for proper operation. If you experience a high number of incorrect characters, adjust the volume as necessary to minimize the error rate.
- For optimal performance, your phone should be at least 12 inches (30 centimeters) away from the TTY device. Placing the phone too close to the TTY device may cause high error rates.

Set TTY Mode

When you set your phone to a TTY mode, it operates in that mode whenever the TTY device is connected.

Find the Feature

MENU > Settings
> Other Settings
> Initial Setup
> TTY Setup

Press

To

1

scroll to **TTY Setup**

2 **CHANGE** (

change the TTY mode



Press	To
3 	scroll to the TTY mode
4 SELECT ()	select the TTY mode

The **TTY Setup** menu can include the following options:

Option	Description
TTY	Transmit and receive TTY characters
VCO	Receive TTY characters but transmit by speaking into the microphone
HCO	Transmit TTY characters but receive by listening to the earpiece
Voice	Return to normal voice mode



When your phone is in a TTY mode, the international TTY symbol and the mode setting are shown in the display during an active digital TTY call. You can press **TTYMODE** () to change the mode setting.

Switch to TTY Mode During a Voice Call

Press	To
1 	open the Call menu
2 	scroll to TTY Setup
3 SELECT ()	display the TTY Setup menu
4 	scroll to the TTY mode
5 SELECT ()	select the TTY mode



Return to Voice Mode

To return to normal voice mode, select **Voice** from the **TTY Setup** menu as described on page 140.

Hands-Free Use



You can purchase an optional Motorola Original™ hands-free car kit or headset for your phone.

These accessories provide alternative ways for you to use your phone without using your hands.

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

Automatic Answer

You can set your phone to automatically answer calls after two rings (four seconds) when connected to a car kit or headset.

Find the Feature

MENU > **Settings**
> **Other Settings**

Press	To
1	scroll to Car Settings or Headset
2 SELECT ()	select the feature
3	scroll to Auto Answer
4 CHANGE ()	select Auto Answer
5	scroll to On or Off
6 SELECT ()	confirm the setting



Automatic Hands-Free

You can set your phone to automatically route calls to a car kit when it detects a connection.

Find the Feature

-  > Settings
> Other Settings
> Car Settings
> Auto Handsfree

Press	To
1 	scroll to On or Off
2 SELECT ()	confirm the setting

Power-Off Delay

When your phone is connected to a car kit, you can set it to stay on for a period of time after you switch off the ignition. This prevents the phone from draining your vehicle battery, but leaves the phone on long enough that you do not have to re-enter your unlock code when making short stops.

Note: This feature may not work with all car ignition switches.

Caution: If you select **Continuous**, the phone does not power off when you turn off the ignition. Be careful not to drain your vehicle battery if you select this option.

Find the Feature

-  > Settings
> Other Settings
> Car Settings
> Power-Off Delay





Press	To
1	scroll to the time delay
2 SELECT ()	confirm your selection

Charger Time

When your phone is connected to a car kit, you can set it to charge itself for a specified time period after you switch off the ignition. This helps ensure that the phone battery gets fully charged while the vehicle is parked.

Note: This feature may not work with all car ignition switches.

Find the Feature

- MENU** > Settings
 > Other Settings
 > Car Settings
 > Charger Time

Press	To
1	scroll to the charge time
2 SELECT ()	confirm your selection

Data and Fax Calls



An optional Motorola Original™ data kit (which includes a cable connector) lets you transfer data between your phone and a computer, Palm OS® compatible device, or Microsoft

Windows CE, Pocket PC, or Handheld PC device. You can:

- Synchronize phonebook and datebook information between your phone and a computer or PDA.
- Use your phone as a modem to connect to the Internet.
- Use your phone to send and receive data and fax calls on your computer or hand-held device.



Making a Cable Connection

Install the Software

To transfer data between your phone and computer, you must install the software included with the Motorola Original data kit. See the data kit's user guide for more information.

Attach the Cable

Use a Motorola Original serial cable or Motorola Original USB cable to connect your phone to the external device.

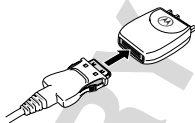
Note: Not all devices are compatible with a cable connection. Check your computer or hand-held device to determine the type of cable you need.

Serial Cable

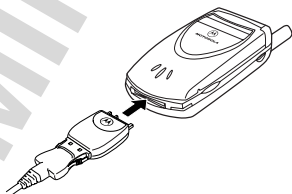


Do This

- 1 Plug the serial cable into the detachable head. Make sure that the Motorola logo on the detachable head and the metal shielding on the serial cable plug are both facing you.



- 2 With the Motorola logo and the phone both facing you, plug the detachable head into the phone's accessory connector port.

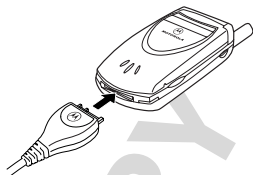


- 3 Plug the other end of the cable into the serial interface connection on the device and tighten the screws, if present.

USB Cable

Do This

- 1 Plug the end of the cable with the Motorola logo into the phone's accessory connector port. Make sure that the logo and the phone are both facing you.



- 2 Plug the other end—the USB connection—into the USB port on the external device.

Synchronizing Data

You can synchronize phonebook and datebook information between your phone, computer, and PDA with Starfish TrueSync[®] software, a Motorola accessory product. See the TrueSync user guide for more information.

Note: TrueSync software is designed to synchronize with basic features of many popular Personal Information Management (PIM) software and hardware products.

Sending a Data or Fax Call

Use this procedure to send data or a fax from a connected device.

Connect your phone to the device as described on pages 145-147 and do the following:





Do This	To
1 Check the phone	make sure that the phone is connected and powered on
2 Open the application on your computer	place the call through the application (such as dial-up-networking or fax)
	Note: You cannot dial data or fax numbers through your phone's keypad. You must dial them through your computer.
3 End the call from the connected device	close the call and connection when the transfer is complete

Receiving a Data or Fax Call

Use this procedure to transfer data or a fax to your computer or hand-held device. Connect your phone to the device as described on pages 145-147.

Set Up Your Phone

Find the Feature

MENU > Settings
> Other Settings
> Connection
> Incoming Call

Do This	To
1 Press CHANGE ()	select Next Call



Do This	To
2 Press 	scroll to Data In Only or Fax In Only
3 Press SELECT ()	set the call format
4 Connect your phone to the device	enable the data or fax transfer

Note: You cannot answer incoming voice calls when your phone is in data or fax mode. Any voice calls you receive are treated as unanswered calls. To return a voice call, reset your phone to voice mode as described on page 149.

Transfer the Data or Fax

Your phone notifies you when the data or fax call arrives, and transfers the call to the connected device. Use the application running on the device to answer the call.

End the Data/Fax Connection

When the data or fax transfer is complete, end the call from the connected device to close the connection.

Reset Normal Voice Operation

After making a data or fax call, you must reset your phone to resume normal voice operations.

Find the Feature



> **Settings**
 > **Other Settings**
 > **Connection**
 > **Incoming Call**
 > **Next Call > Normal**

Your phone also reverts to normal voice operations when you turn it off and then turn it back on.

Security

Assigning a New Code or Password

Your phone's unlock code is originally set to 1234, and the security code is originally set to 000000. Your service provider may reset these numbers before you receive your phone.

If your service provider has *not* reset these numbers, we recommend that you change them to prevent other users from accessing your personal information. The unlock code must contain four digits, and the security code must contain six digits.

Notes:

- Your service provider may retain your phone's security code for customer service purposes. In this case, you will not be able to use phone features that require you to enter the security code.
- If the unlock code is the only code you can change, the **New Passwords** menu is not available. In this case, change the unlock code by selecting: **MENU** > **Settings** > **Security** > **Phone Lock** > **Unlock Code**.

To change a code or password:

Find the Feature

MENU > **Settings** > **Security**
> **New Passwords**



Press	To
1 	scroll to the code or password
2 CHANGE ()	select the code or password
3 keypad keys	enter your old code
4 OK ()	submit your old code
5 keypad keys	enter the new code
6 OK ()	assign the new code
7 keypad keys	re-enter the new code
8 OK ()	confirm the new code

If You Forget a Code or Password

If you forget your security code, contact your service provider.

If you forget your unlock code, try entering 1234 or the last four digits of your phone number. If that does not work, do the following at the **Enter Unlock Code** prompt:

Press	To
1 	go to the unlock code bypass screen
2 keypad keys	enter your security code
3 OK ()	submit your security code



Locking and Unlocking Your Phone

You can lock your phone manually or set the phone to lock automatically whenever you turn it off.

To use a locked phone, you must enter the unlock code. A locked phone still rings or vibrates for incoming calls or messages, *but you must unlock it to answer.*

You can make emergency calls on your phone even when it is locked. For more information, see page 32.

Lock Your Phone Manually

Find the Feature

MENU > Settings > Security
> Phone Lock
> Lock Now

Press	To
1 keypad keys	enter your unlock code
2 OK ()	lock the phone

Set Your Phone to Lock Automatically

You can set your phone to lock every time you turn it off.

Find the Feature

MENU > Settings > Security
> Phone Lock
> Automatic Lock > On

Press	To
1 keypad keys	enter your unlock code
2 OK ()	activate automatic lock

Unlock Your Phone

At the **Enter Unlock Code** prompt:

Press	To
1 keypad keys	enter your unlock code
2 OK ()	unlock your phone

Restricting Calls

You can stop all incoming and/or outgoing calls, or you can restrict outgoing calls to the numbers stored in your phonebook.

Notes:

- You can make emergency calls when outgoing calls are restricted.
- Your phone still receives incoming text messages when incoming calls are restricted.

Find the Feature

 > **Settings** > **Security**
> **Restrict Calls**

Press	To
1 keypad keys	enter your unlock code
2 OK ()	open the restrict calls menu
3 	scroll to Outgoing Calls or Incoming Calls
4 CHANGE ()	select the option
5 CHANGE ()	change the Allow setting
6 	scroll to All , None , or Phonebook



Press	To
7 SELECT ()	select the allowed calls

Tip: The phonebook is not locked when you restrict outgoing calls to numbers stored in the phonebook. To prevent a user from adding (and then calling) a new phonebook entry, you may want to lock the phonebook. See the “Lock Application” item on page 56.



Security

PRELIMINARY

Troubleshooting

Check these questions first if you have problems with your phone. If you need additional help, contact the Motorola Customer Call Center at 1-800-331-6456 (United States) or 1-800-461-4575 (Canada).

Question	Answer
Is your phone set up correctly?	Press MENU # ▶ . If you do not see your phone number, contact your service provider.
Is your battery charged? Do you see  in the display?	The battery level indicator should have at least one segment showing (). If it does not, recharge your battery. See page 18.
Does the handset have a signal? Do you see  in the display?	Make sure that your antenna is fully extended. The signal strength indicator should have at least one segment showing (). If it does not, move to an area with a stronger signal to use your phone.
Is the earpiece volume too low?	While on a call, press the upper volume key on the side of your phone.





Question	Answer
Is the other party unable to hear you?	Make sure that your antenna is fully extended and that your phone is not muted. Press UNMUTE () if necessary to unmute the phone. Also, make sure that your phone's microphone is not blocked by its carrying case or a sticker.
Has the phone been damaged, dropped, or gotten wet?	Dropping your phone, getting it wet, or using a non-Motorola battery or battery charger can damage the phone. The phone's limited warranty does not cover liquid damage or damage caused from using non-Motorola accessories.
Was a non-Motorola battery or battery charger used?	

The following refer to specific problems:

Problem	Solution
My phone was stolen. To whom should I report this?	Report a stolen phone to the police and to your service provider (the company that sends you your monthly wireless service bill).
I forgot my password.	See page 151.

Problem	Solution
I pressed the power key, but nothing happened.	Be sure to press and hold  (the power key) until the display appears and you hear an alert. This could take several seconds. If nothing happens, check that a charged battery is installed. See page 17.
The display says: Enter Unlock Code. How do I unlock my phone?	Enter the factory-preset unlock code (1234), or the last four digits of your phone number. If this fails, call your service provider (the company that sends you your monthly wireless service bill).
My phone asks for an unlock code when I try to open a feature.	The application you want is locked. If you do not know the unlock code, see page 151.
My phone does not ring.	If you see  or  in the display, then the ringer is turned off. See page 110. Also, the ringer may be set to Silent even though your phone is set to an audible ring style. See page 110.





Problem	Solution
My phone rings even though I selected the Silent (or Vibrate) ring style.	The ringer may be set to play a tone even though your phone is set to a silent ring style. See page 110.
I tried to place a call and heard an alternating high/low tone.	Your call did not reach the wireless system. You may have dialed the number too soon after turning the phone on. Wait until the display says Ready before making a call.
I cannot send/receive calls.	Make sure that your antenna is fully extended and that you have a phone signal (see the “Signal Strength Indicator” item on page 24). Avoid electrical or radio interference, and obstructions such as bridges, parking garages, or tall buildings. Your phone also may have the Restrict Calls feature turned on. If you know the unlock code, you can change this setting in the security menu (MENU > Settings > Security).



Problem	Solution
My phone has poor reception and drops calls.	Make sure that your antenna is fully extended and is not bent or damaged. Also, make sure you have a phone signal (see the “Signal Strength Indicator” item on page 24). Stay clear of any obstructions such as bridges, parking garages, or tall buildings.
I cannot hear others on my phone.	While on a call, press the upper volume key. The display should show the volume increasing. Also, make sure that your phone’s earpiece is not blocked by its carrying case.
I cannot open my message inbox.	Before you can use text messages, you must set up the message inbox. See page 91.
How do I see the calls I sent or received?	To see the most recent calls you dialed or received:  > Recent Calls > Received Calls or Dialed Calls



Problem	Solution
My phone will not send voicemail commands, passwords, or other codes.	Your phone sends commands and passwords as DTMF tones. You can set your phone's DTMF tones to be Long, Short, or Off. If you have trouble sending numbers, try changing the DTMF setting. - From the idle display, press: MENU > Settings > Other Settings > Initial Setup > DTMF - Press Left Arrow to scroll to Long or Short (some analog networks may not recognize short tones). - Press SELECT (Right Arrow) to select it.
My phone's display is too dark.	Use the Contrast feature to change the level of contrast in your display. See page 59. You can also use the Backlight feature to change the length of time that the display backlight stays on. See page 58.

Problem	Solution
My battery didn't last as long as I expected. What can I do to extend battery life	Your battery's performance is affected by charge time, feature use, temperature changes, backlight use, and other factors. For tips on extending your battery life, see page 28.
I am unable to record a voice note, voice name, or voice shortcut.	Try moving to a quieter location to make your voice recording. Hold the phone about four inches (10 centimeters) from your mouth, and speak directly into the phone in a normal tone of voice.
My TTY device doesn't work with my phone.	Your phone must be set to a TTY mode for the phone to detect your TTY device. See page 140.
I plugged the data cable into my phone but my phone did not beep. How do I know if the data cable is ready to go?	The beep indicates that you are set up correctly. If you did not hear a beep, make sure that both ends of the data cable are connected—the smaller end to your phone and the larger end to your computer. Also, your computer may have deactivated the port to save power. Try opening an application that uses the port, like a fax or dial-up application, to automatically activate the port.





Problem	Solution
My phone beeped when I attached the data cable, but my data and fax applications don't work.	You must be in an area with digital coverage. Check your phone's display for the digital signal indicator (D). Some wireless networks may not support data or fax transmission. If you see the digital indicator, but you are roaming on an unfamiliar network, this may be the case. Also, remember that data and fax transmission usually requires a subscription. Call your service provider for more information.
When sending data with the data cable, why does the computer show a connection rate of 19200 Kbps?	19200 Kbps is the data transfer rate of the connection between your computer and the phone. The rate of the connection between your phone and the network is displayed on your phone, and will be either 14400 or 9600 Kbps.
I can't end my data call by closing the application on my computer. What can I do?	Try pressing  on your phone. Or try disconnecting the cable or turning off the phone. If possible, always close the connection through your computer, as these alternative methods may disrupt the application on your computer.

Problem	Solution
I launched the micro-browser but the display says: Service Not Available.	You may be in an area without service. If you have wireless service, look in the display for the digital signal indicator (D). If you do not see the indicator, you may be in an area that has only analog service or no service at all. If you see the digital signal indicator, you may be connected to a digital network that does not support Internet access.
I launched the micro-browser but the display says: Data Server Unavailable.	Try again in a few minutes. The servers may be temporarily busy.



Programming Instructions

Follow this procedure if you need to program your phone's phone number(s) or system ID.

Note: Programming is normally done by a trained technician at the site of purchase. Users should not make changes other than ones in the following procedure.

Before programming, ask your service provider for your:

- 10-digit MIN (Mobile Identification Number)
- 8- to 15-digit IMSI (International Mobile Service Identifier)
- 8- to 15-digit MDN (Mobile Directory Number)
- 5-digit AMPS Sys ID number
- 5-digit CDMA Sys ID number

Do This	To
1 Press , , , , , , ,  (These keys spell P-H-O-N-E + , , )	open the user activation menu
2 Press 	scroll to NAM1 (phone number 1) or NAM2 (phone number 2)
3 Press SELECT ()	open the NAM programming menu

Do This	To
4 Press the keypad keys for the 10-digit MIN	open the MIN editor and enter the new MIN
5 Press OK ()	store the new MIN
6 Similarly, enter appropriate numbers for the IMSI, MDN, AMPS Sys ID, and CDMA Sys ID	
7 Press DONE ()	close the NAM programming menu
8 Press EXIT ()	close the user activation menu

Specific Absorption Rate Data

The Motorola V60i V60x wireless phone meets the government's requirements for exposure to radio waves.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government and by Health Canada for Canada. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age or health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC and by Health Canada is 1.6W/kg.¹ Tests for SAR are conducted using standard operating positions accepted by the FCC and by Industry Canada with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station, the lower the power output.

Before a phone model is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does not exceed the limit established by each government for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) reported to the FCC and available for review by Industry Canada. The highest SAR value for this model phone when tested for use at the ear is 1.30 W/kg, and when worn on the body, as described in this user guide, is 0.55 W/kg. (Body-worn measurements

measurements differ among phone models, depending upon available accessories and regulatory requirements).²

While there may be differences between the SAR levels of various phones and at various positions, they all meet the governmental requirements for safe exposure.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Web site:

<http://phonefacts.net>

or the Canadian Wireless Telecommunications Association (CWTA) Web site:

<http://www.cwta.ca>

1. In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
2. The SAR information includes the Motorola testing protocol, assessment procedure, and measurement uncertainty range for this product.

ITC02-155

**The U.S. Food and Drug
Administration's Center for
Devices and Radiological Health
Consumer Update on Mobile Phones**



FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known—and what remains unknown—about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna—

the primary source of the RF—and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously—up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

- 1 In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve

sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.¹

- 2 Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.²

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research

recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

- 1 Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.³
- 2 In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used.

Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.⁴

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of

mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- support needed research into possible biological effects of RF of the type emitted by mobile phones
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function

- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle

- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package
- a headset with a remote antenna to a mobile phone carried at the waist

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radio frequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following Web sites:

Federal Communications Commission (FCC) RF Safety Program (select “Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters”):

<http://www.fcc.gov/oet/rfsafety>

World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As): <http://www.who.int/emf>

United Kingdom, National Radiological Protection Board:

<http://www.nrpb.org.uk>

Cellular Telecommunications Industry Association (CTIA):

<http://www.wow-com.com>

U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health:

<http://www.fda.gov/cdrh/consumer/>

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2. Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, D.C.; and personal communication, unpublished results.
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4. Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors: a case-control study. *Int. J. Oncol.*, 15: 113-116, 1999.

ITC00-010

Motorola Limited Warranty for the United States and Canada

What Does this Warranty Cover?

Subject to the exclusions contained below, Motorola, Inc. warrants its telephones, pagers, and consumer and professional two-way radios (excluding commercial, government or industrial radios) that operate via Family Radio Service or General Mobile Radio Service, Motorola-branded or certified accessories sold for use with these Products ("Accessories") and Motorola software contained on CD-ROMs or other tangible media and sold for use with these Products ("Software") to be free from defects in materials and workmanship under normal consumer usage for the period(s) outlined below. This limited warranty is a consumer's exclusive remedy, and applies as follows to new Motorola Products, Accessories and Software purchased by consumers in the United States or Canada, which are accompanied by this written warranty:

Products and Accessories

Products Covered	Length of Coverage
Products and Accessories as defined above, unless otherwise provided for below.	One (1) year from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below.
Decorative Accessories and Cases. Decorative covers, bezels, PhoneWrap™ covers and cases.	Limited lifetime warranty for the lifetime of ownership by the first consumer purchaser of the product.
Monaural Headsets. Ear buds and boom headsets that transmit mono sound through a wired connection.	Limited lifetime warranty for the lifetime of ownership by the first consumer purchaser of the product.

Products Covered	Length of Coverage
Consumer and Professional Two-Way Radio Accessories.	Ninety (90) days from the date of purchase by the first consumer purchaser of the product.
Products and Accessories that are Repaired or Replaced.	The balance of the original warranty or for ninety (90) days from the date returned to the consumer, whichever is longer.

Exclusions

Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

Batteries. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this limited warranty.

Abuse & Misuse. Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola, are excluded from coverage.

Use of Non-Motorola Products and Accessories. Defects or damage that result from the use of Non-Motorola branded or certified Products, Accessories, Software or other peripheral equipment are excluded from coverage.

Unauthorized Service or Modification. Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola, or its authorized service centers, are excluded from coverage.

Altered Products. Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola housings, or parts, are excluded from coverage.

Communication Services. Defects, damages, or the failure of Products, Accessories or Software due to any communication service or signal you may subscribe to or use with the Products Accessories or Software is excluded from coverage.

Software

Products Covered	Length of Coverage
Software. Applies only to physical defects in the media that embodies the copy of the software (e.g. CD-ROM, or floppy disk).	Ninety (90) days from the date of purchase.

Exclusions

Software Embodied in Physical Media. No warranty is made that the software will meet your requirements or will work in combination with any hardware or software applications provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected.

Software NOT Embodied in Physical Media. Software that is not embodied in physical media (e.g. software that is downloaded from the internet), is provided “as is” and without warranty.

Who is Covered?

This warranty extends only to the first consumer purchaser, and is not transferable.

What Will Motorola Do?

Motorola, at its option, will at no charge repair, replace or refund the purchase price of any Products, Accessories or Software that does not conform to this warranty. We may use functionally equivalent

reconditioned/refurbished/pre-owned or new Products, Accessories or parts. No data, software or applications added to your Product, Accessory or Software, including but not limited to personal contacts, games and ringer tones, will be reinstalled. To avoid losing such data, software and applications please create a back up prior to requesting service.

How to Obtain Warranty Service or Other Information?

USA	Phones 1-800-331-6456 Two-Way Radios 1-800-353-2729 Pagers 1-800-548-9954
Canada	All Products 1-800-461-4575
TTY	1-888-390-6456
For Accessories and Software , please call the telephone number designated above for the product with which they are used.	

You will receive instructions on how to ship the Products, Accessories or Software, at your expense, to a Motorola Authorized Repair Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider, if applicable; (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number.

What Other Limitations Are There?

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL MOTOROLA BE LIABLE, WHETHER IN CONTRACT OR TORT

(INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, ACCESSORY OR SOFTWARE, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, SOFTWARE OR APPLICATIONS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS, ACCESSORIES OR SOFTWARE TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

Some states and jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.

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ITC02-162

Product Registration

Online Product Registration:

<http://www.motorola.com/warranty>

Product registration is an important step toward enjoying your new Motorola product. Registering helps us facilitate warranty service, and permits us to contact you should your product require an update or other service. Registration is for U.S. residents only and is not required for warranty coverage.

Please retain your original dated sales receipt for your records. For warranty service of your Motorola Personal Communications Product you will need to provide a copy of your dated sales receipt to confirm warranty status.

Thank you for choosing a Motorola product.

Export Law Assurances

This product is controlled under the export regulations of the United States of America and Canada. The Governments of the United States of America and Canada may restrict the exportation or re-exportation of this product to certain destinations. For further information contact the U.S. Department of Commerce or the Canadian Department of Foreign Affairs and International Trade.

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PRELIMINARY



MOTOROLA

Wireless Phone Safety Tips

"Safety is your most important call!"

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

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

- 1 **Get to know your Motorola wireless phone and its features such as speed dial and redial.** If available, these features help you to place your call without taking your attention off the road.



- 2 **When available, use a hands-free device.** If possible, add an additional layer of convenience to your wireless phone with one of the many Motorola Original™ hands-free accessories available today.
- 3 **Position your wireless phone within easy reach.** Be able to access your wireless phone without removing your eyes from the road. If you receive an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
- 4 **Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.** Rain, sleet, snow, ice, and even heavy traffic can be hazardous.
- 5 **If you receive an incoming call at an inconvenient time do not take notes or look up phone numbers while driving.** Jotting down a “to do” list or going through your address book takes attention away from your primary responsibility—driving safely.
- 6 **Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.** Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
- 7 **Do not engage in stressful or emotional conversations that may be distracting.** Make people you are talking with aware you are driving and suspend conversations which have the potential to divert your attention away from the road.

- 
- 8 **Use your wireless phone to call for help.** Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.*
- 9 **Use your wireless phone to help others in emergencies.** If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.*
- 10 **Call roadside assistance or a special non-emergency wireless assistance number when necessary.** If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.*

* Wherever wireless phone service is available.

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



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