



MOTOROLA

DIGITAL WIRELESS
TELEPHONE

User's Guide >

Welcome

Welcome to the world of Motorola digital wireless communications! We are pleased that you have chosen the Motorola T720 CDMA wireless phone.

Left Soft Key

Perform functions identified by left display prompt.

Headset Jack

Insert headset accessory for hands-free use.

Power Key & End Key

Turn phone on and off, end phone calls, exit menu system.

Volume Keys

Adjust earpiece and ringer volume.

4-Way Navigation Key

Scroll through menus and lists, set feature values.

Menu Key

Status Light

See incoming call and service status.

Right Soft Key

Perform functions identified by right display prompt.

Voice Key

Record voice notes, phonebook and shortcut names.

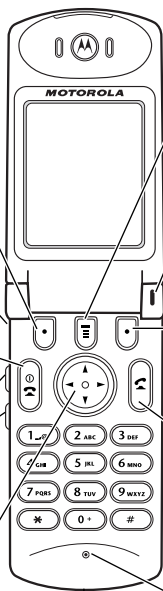
Send Key

Send and answer calls, view recent dialed calls list.

Accessory Connector Port

Insert charger and phone accessories.

Microphone



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



Media Center

- Picture Viewer
- My Tones
- Radio



Voice Notes



Ring Styles

- Style
- Style Detail



Get It Now

- Get It Now Shop



Calculator



Settings

(see next page)



Datebook



Web Browser

- Home
- Go To URL
- Mark Site
- Reload
- About Openwave
- Advanced



More

(go to following menu items)



Messages

- Voicemail
- Create Message
- Inbox
- Outbox
- Quick Notes
- Drafts
- Browser Alerts



Recent Calls

- Received Calls
- Dialed Calls
- Notepad
- Call Times



Shortcuts



Phonebook

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 under **Media Center** is available only when the optional FM Stereo Radio Headset accessory is plugged into your phone.

Settings Menu

Personalize

- Main Menu
- Home Keys
- Color Style
- Greeting
- Banner
- Banner Graphic
- Wallpaper
- Screen Saver

Connection

- Incoming Call

In-Call Setup

- In-Call Timer
- Answer Options

Phone Status

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

Security

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

Initial Setup

- Time and Date
- Auto PIN Dial
- Auto Redial
- Backlight
- Status Light
- Zoom
- TTY Setup
- Scroll
- Language
- Contrast
- DTMF
- Master Reset
- Master Clear

Location

- Location On
- 911 Only

Network

Car Settings

Headset

Shortcuts

Change display zoom:

Press , then
press and hold 

Change ringer alert:

Press down volume key to
switch to silent alert. Press up
volume key to reset to ring alert.

Display my phone number:

Press  

Go to dialed calls list:

Press 

Exit menu system:

Press 

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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

 > **More** > **Phonebook**

This example shows that from the idle display, you must press , scroll to and select **More** () from the main menu, then scroll to and select **Phonebook**.

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 contained in user guides published prior to July 2000. For information regarding radio use in a hazardous atmosphere please refer to the Factory Mutual (FM) Approval Manual Supplement or Instruction Card, which is included with radio models that offer this capability.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Operational Characteristics

Your phone contains a transmitter and a receiver. When it is ON, it receives and transmits radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 849 MHz in analog and digital mode and 1851.25 MHz to 1908.75 MHz in digital mode.

When you communicate with your phone, the system handling your call controls the power levels at which your phone transmits. The output power level typically may vary over a range from 0.00 watts to 0.54 watts in analog mode and 0.00 watts to 0.32 watts in digital mode.

Exposure To Radio Frequency Energy

Your Motorola phone is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- United States Federal Communications Commission, Code of Regulations; 47 CFR part 2 sub-part J

- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- National Council on Radiation Protection and Measurements (NCRP) of the United States, Report 86, 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation-Human Exposure) Standard 1999

To assure optimal phone performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures:

Portable Phone Operation and EME Exposure

Antenna Care

Use only the supplied or an approved replacement antenna.

Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Do NOT hold the antenna when the phone is in use. Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed.

Phone Operation

When placing or receiving a phone call, hold your phone as you would a wireline telephone. **Speak directly into the microphone.**

Body-Worn Operation

To maintain compliance with FCC/Health Canada RF 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 product. Use of non-Motorola-approved accessories may exceed FCC/Health Canada RF exposure guidelines. If you do not use one of the Motorola-supplied or approved body-worn accessories, and are not using the phone held in the normal use position, **ensure the phone and its antenna are at least one 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 one inch (2.5 centimeters) from your body.**

Approved Accessories

For a list of approved Motorola accessories, visit our website at www.mot.com.

Electromagnetic Interference/Compatibility

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your phone in any facility where posted notices instruct you to do so. Hospitals or health care facilities 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

The Advanced Medical Technology Association recommends that a minimum separation of 6 inches (15 centimeters) be maintained between a handheld wireless phone and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, the United States Food and Drug Administration.

Persons with pacemakers should:

- ALWAYS keep the phone more than six 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.

Safety and General 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.

Operational Warnings

For Vehicles With an Air Bag

Do not place a portable phone in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable 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 the phone is a model specifically identified as being "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, and any other area where you would normally be advised to turn off your vehicle engine. 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 two-way radio." Obey all signs and instructions.

Operational Cautions

Antennas

Do not use any portable phone that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chains touches 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.

ITC01-101

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

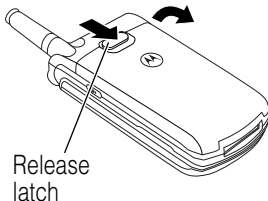
You must install and charge the battery to use your phone.



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.

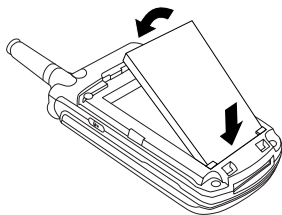
Do This

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

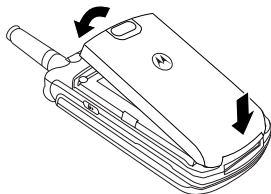


**Do This**

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



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



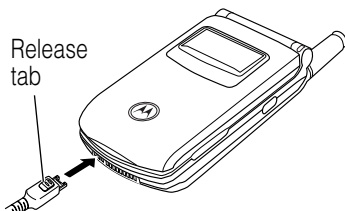
Charging the Battery

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.



- 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.

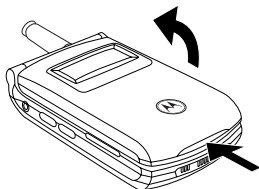
Your phone is designed to be used only with Motorola Original accessories. See your Motorola retailer for these convertible covers.



Remove a Flip Cover

Do This

Insert your fingertip or fingernail into the slot at the base of the flip cover, then *firmly* pull up and lift the cover off the phone



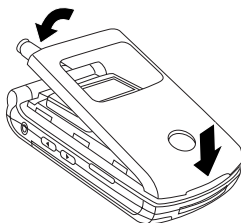
Notes:

- Do not use tools to remove a flip cover. Using tools to remove a flip cover will damage the cosmetic appearance of the phone.
- The flip cover is attached tightly to the phone, and considerable force is required to remove it.

Attach a Flip Cover

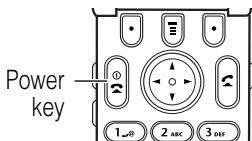
Do This

Insert the tabs at the bottom of the cover into the slots at the base of the phone, then push the cover down and snap it into place.



Turning Your Phone On

Do This	To
1 Open your phone	expose the keypad
2 Press and hold  for three seconds	turn on your phone



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
2 Press the keypad keys	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.





Do This	To
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	To
 or ANSWER ()	answer the call

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

Seeing Your Phone Number

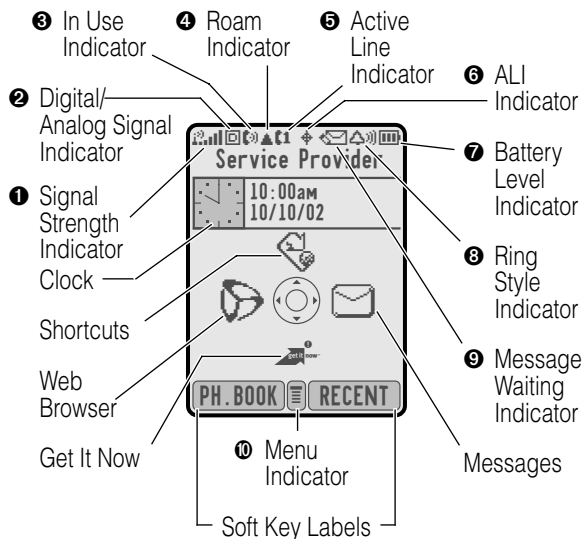
Press	To
 	see your phone number

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.



Use the 4-way navigation key (⬇⬆⬅⬇) to select one of the four menu feature icons in the display. 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/Analog Signal Indicator Shows whether you are receiving a digital or analog signal:

 = digital signal

 = analog signal

 = 13K digital

 = 8K digital

 = packet data service

❸ In Use Indicator Shows that a call is in progress. Other indicators can include:

 = secure CSD call

 = unsecure CSD call

 = secure packet data transfer

 = unsecure packet data transfer

 = secure application connection

 = unsecure application connection



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

 = 3G roam

 = 3G home

 = 2G roam

 = 2G home

On text entry screens, shows status information:

 = symbol mode

 = numeric mode

 = caps lock on

 = normal text entry



5 Active Line Indicator Shows the current active phone line:

 = line 1

 = line 2



6 ALI Indicator Shows the status of the *automatic location information* feature:

 = ALI on

 = ALI off

On text entry screens, shows status information:

 = tap method

 = iTAP mode

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

8 Ring Style Indicator Shows the ring style setting:

 = loud ring

 = soft ring

 = vibrate

 = vibrate and ring

 = silent



9 Message Waiting Indicator Appears when you receive a text message. Other indicators can include:

 = voicemail message

 = voicemail and text message



#t =limited character
count (text
entry screen)

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

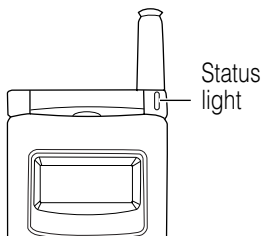
Zooming In and Out

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

You can also zoom in and out from the menu. See page 60.

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

Note: You can turn off the status light to increase 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. To turn it off, see "Initial Setup" on page 59.

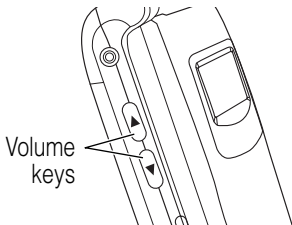
Adjusting Volume

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)

Tip: At the lowest volume setting, press the down volume key to switch to silent alert. Press the up volume key to reset ring alert.

- turn off an incoming call alert

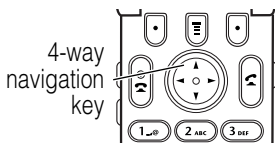


Using the External Display

When the flip is closed, the external display shows the time, date, and phone status information. It also displays messages to notify you of incoming calls and other events.

Using the 4-Way Navigation Key

Use the 4-way navigation key like a joystick to navigate the menu system, change feature settings, and play games.



Tip: Down and up are your primary movements within menus. Move left and right to change feature settings, navigate the datebook, and edit text.

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 59.
- **Turn off the screen saver**
Using an animated screen saver reduces your phone's talk and standby time. See page 131.
- **Minimize keypad-intense 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 page 21.

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 60.

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 in your phone's external and internal displays.

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 70 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, highlight or open the message and then:

Press	To
1	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
> Attach Number	attach a number from the phonebook or recent call lists
> Insert Pause	insert a p (pause) character For more information, see page 72.
> Insert Wait	insert a w (wait) character For more information, see page 72.

Press	To
 > Insert 'n'	insert an n (number) character For more information, see page 72.
 > 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 74.
Press  > More > 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
Note: Some networks may require you to press  first.	
2 	call the number
3 	connect the two calls
4 	end the entire call



Additional On-Call Features

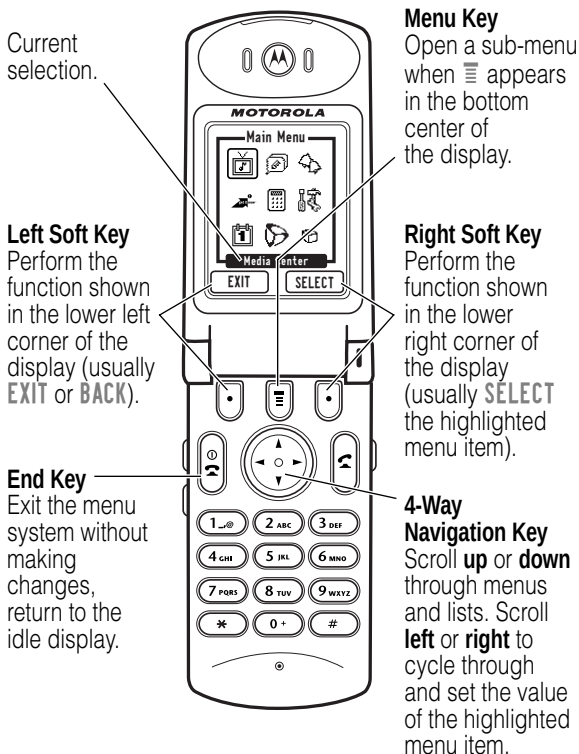
Press	To
MUTE (⏏) (if available) or ⏏ > Mute	mute the call
SPEAKER (⏏) (if available) or ⏏ > Spkrphone On	activate an attached speakerphone during an active call
⏏ > My Tel. Number	see your phone number
⏏ > Send Tones	send a number to the network as DTMF tones, for credit card or password calls To activate DTMF tones, see the “DTMF” option on page 61.
⏏ > TTY Mode	change to TTY mode to use your phone with a TTY device
⏏ > Received Calls or Dialed Calls	view recent received or dialed call numbers
⏏ > Messages	view or send messages
⏏ > Datebook	view datebook entries
⏏ > Location	view and change the location transmission status of your phone
⏏ > Other Information	view phone specifications



Using the Menu

Navigating to a Feature

Use these keys to move through the menu system:



Press  to highlight a menu feature icon in the main menu. Select **More** () to see additional menu features. The following icons represent features that may appear in the main menu, depending on your service provider and service subscription options.

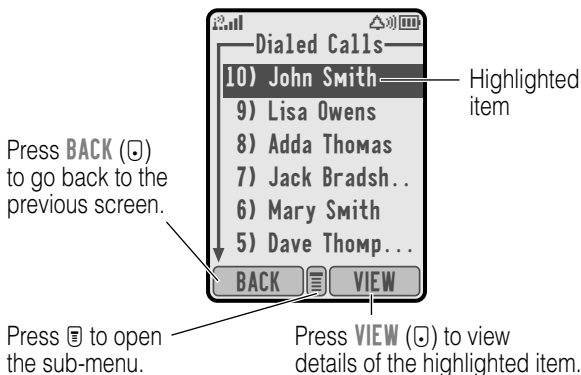
Menu Icon	Feature	Menu Icon	Feature
	Media Center		Voice Notes
	Ring Styles		Get It Now
	Calculator		Settings
	Datebook		Web Browser
	More		Messages
	Recent Calls		Shortcuts
	Phonebook		

Tip: You can set your phone to display the main menu as a text-based list rather than graphic icons. See page 129.



Selecting a Feature Option

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

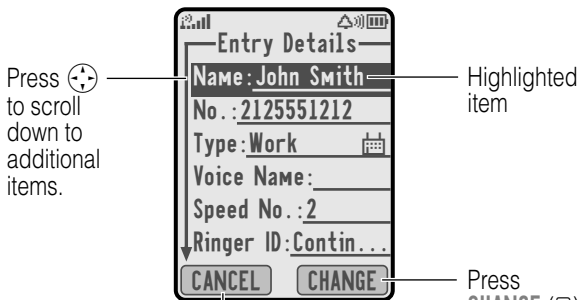


- Press (⬆/⬇) to scroll up or down to highlight the item you want.
- In a numbered list, press a number key to highlight the item.
- In an alphabetized list, press a key multiple times to cycle through the letters on the key and highlight the closest matching list item.



Entering Feature Information

Some features require you to enter information:



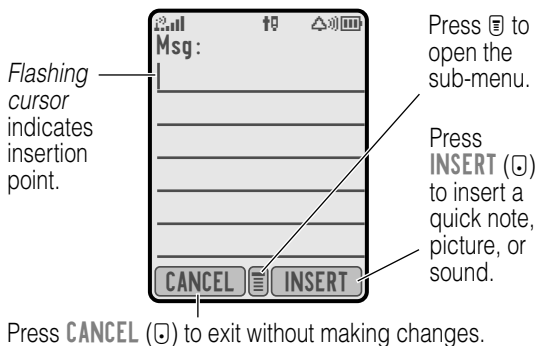
Press **CANCEL** (⏮) to exit without making changes.
DONE (⏮) appears when you enter or edit information.

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

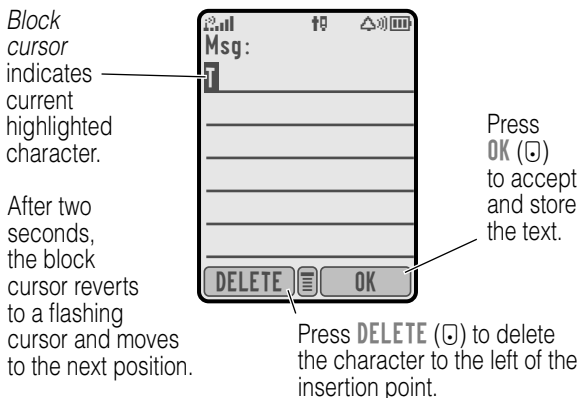
- Enter numbers or text with the keypad.
- When an item has a list of possible values, press [left/right arrow] to the left or right to scroll through and select a value.
- When an item has a list of possible numeric values, press a number key to set the value.
- If you enter or edit information and 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:



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



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  > **Entry Method** from any text entry screen to select a text mode:

- | | |
|-------------------|---|
| iTAP | Let the phone predict each word as you enter it. See page 48. |
| Tap Method | Enter letters, numbers, and symbols by pressing a key one or more times. See page 44. |
| Numeric | Enter numbers only. |
| Symbol | Enter symbols only. See page 47. |
| 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  > **Entry Method** from any text entry screen and select the **Tap Method** menu option.

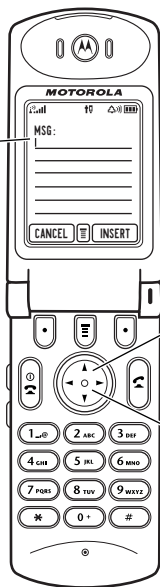
Do This		To
1	Press a number key one or more times	select a letter, number, or symbol shown in the "Character Chart" on page 46
2	Continue pressing number keys	enter the remaining characters
3	Press OK ()	store the text when you are finished

General Text Entry Rules

Press a number key repeatedly to cycle through its characters. See “Character Chart” on page 46.

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 and numeric entry modes.



Press **up** or **down** to change letter in block cursor to uppercase or lowercase.

Press **left** or **right** to 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).

Character Chart

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

1 [space]	space . 1 ? ! , @ _ & ~ : ; " - () ' ` ^ % £ \$ ¥ ¤ €
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 ï í î ÿ 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 ρ σ
8 TUV	t u v 8 θ ü ú ù û τ
9 WXYZ	w x y z 9 ξ ψ
0 +	+ - 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  > **Entry Method** 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 47.
2 Press  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.

	space . ? ! , @ _ & ~ : ; " - () ' ` i % £ \$ ¥ ¤ €
	@ _ \
	/ : ;

4 CHI	" & '
5 JKL	() [] { }
6 MNO	¿ i ~
7 PQRS	< > =
8 TUV	\$ £ ¥ ¤ €
9 WXYZ	# % *
0 +	+ - 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  > **Entry Method** from any text entry screen and select the iTAP menu option.

Note: You can switch languages within a message in iTAP text mode. Press  > **Entry Method** to select the language you want to use.

Enter Words

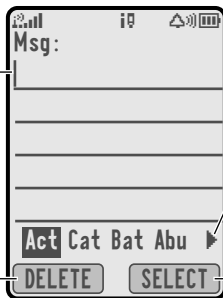
Do This	To
1 Press a number key one time	enter the first letter of the word The letters associated with the key are shown at the bottom of the display.

Do This	To
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.
3 Press 	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    .
The display shows:

Flashing cursor indicates insertion point.

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



Press  to scroll and see additional word choices.

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
2 Press 	highlight the letter or letter combination
3 Press SELECT () , then press  to the left	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 46

Capitalization

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

Press	To
 up or down	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

MEDIA CENTER

Picture Viewer

 > Media Center
> Picture Viewer

View and manage the pictures and animations stored on your phone. See page 79.

My Tones

 > Ring Styles > My Tones

Create custom alert tones for your phone. See page 103.

Radio

 > 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 87.



VOICE NOTES

 > Voice Notes

Use the voice key to record messages and phone calls. See page 112.

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

RING STYLES

Style

 > **Ring Styles** > **Style**

Select the ring style your phone uses to notify you of incoming calls, messages, or other events. See page 101.

Style Detail

 > **Ring Styles**
> **Style Detail**

Change details about the current ring style. *Style* represents the name of the ring style. See page 101.

GET IT NOW

 > **Get It Now**

Download and run games and applications on your phone. See page 123.



CALCULATOR

 > **Calculator**

Use your phone as a calculator or currency converter. See page 120.

SETTINGS See page 56.

DATEBOOK

 > **Datebook**

Use the datebook calendar to schedule and review your appointments. See page 81.

WEB BROWSER

 > **Web Browser**

The micro-browser delivers WAP (Wireless Application Protocol) pages



from your service provider directly to your phone.
See page 118.

MESSAGES

 > **More** > **Messages**

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



- | | |
|-----------------------|--|
| VoiceMail | Listen to your recorded voice messages. See page 90. |
| Create Message | Create new text messages. See page 96. |
| Inbox | Read and manage text messages. See page 92. |
| Outbox | View all outgoing text messages, delivered and undelivered. |
| Quick Notes | Select and send pre-written messages from the quick notes list. See page 99. |
| Drafts | Store and edit text messages that you have written but not sent. |
| Browser Alerts | Read alert messages received by your micro-browser. See page 95. |

RECENT CALLS

Received Calls

 > More > Recent Calls
> Received Calls

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

Dialed Calls

 > More > Recent Calls
> Dialed Calls

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

Notepad

 > More > Recent Calls
> Notepad

Call or store the last number entered on the keypad. See page 66.

Call Times

 > More
> 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.

SHORTCUTS

 > More > Shortcuts

Create keypad or voice shortcuts to menu features. See page 109.

PHONEBOOK

 > More > Phonebook

Store names and numbers as entries in your phonebook, then call numbers by selecting them from the phonebook list. See page 69.



Settings Menu

PERSONALIZE

 > Settings > Personalize

Set several personal phone options:

- | | |
|-----------------------|---|
| Main Menu | Change the order of the main menu. See page 129. |
| Home Keys | Change the functions of the soft keys in the idle display. See page 130. |
| Color Style | Select the color palette that your phone uses for the display. See page 132. |
| 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. |
| Banner Graphic | Set the banner graphic in the idle display to an analog clock or a status icon. |
| Wallpaper | Change the background image used in the idle display. See page 130. |



Screen Saver

Change your phone's screen saver image. See page 131.

CONNECTION

Connect your phone to a computer or hand-held device to send and receive data and fax calls on the connected device. See page 139.



Incoming Call

- > Settings
- > Connection
- > Incoming Call

Specify the format for the next incoming call. You can select **Fax In Only**, **Data In Only**, or **Normal**. See page 142.

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

- > 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

 > **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.

PHONE STATUS**My Tel. Number**

 > **Settings**
> **Phone Status**
> **My Tel. Number**

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

Active Line

 > **Settings**
> **Phone Status**
> **Active Line**



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

Battery Meter

 > **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).

SECURITY**Phone Lock**

 > **Settings** > **Security**
> **Phone Lock**

Lock and unlock your phone. See page 146.

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 147.

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

Change your unlock code (originally set to 1234) or your security code (originally set to 000000). See page 144.

INITIAL SETUP > **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 six lines (**Zoom Out**) and four 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 133.

**Scroll**

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

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.

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 133.



NETWORK

 > **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

 > 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 136.

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

 > Settings
> Headset



Set your phone to automatically answer calls after two rings when connected to a headset. See page 136.



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

 > More > 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.	



Press	To
4 	call the entry's number
or	
VIEW 	view entry details
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

 > **More** > **Recent Calls**
> **Notepad**

Press



or



or

STORE 

To

call the number

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

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.



Recent Calls

To view a call timer:

Find the Feature

 > **More** > **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 **☰** > **More** > **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

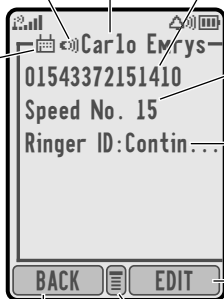
Voice Name indicator indicates a recorded voice name

Entry's **Name**

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

Type indicator identifies number type:

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



Entry's speed dial number

Entry's ringer ID setting

Return to list

Press **☰** 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.

Creating 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

☐ > More > Phonebook

☐ > 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 (to a maximum of 32 characters)
Tip: You can store a PIN code with the phone number. See page 72.	
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 (⏏) or Go to step 13 if you do not want a voice name	record a voice name for the entry, if desired
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 102.

Press	To
18 	scroll to the alert you want
19 SELECT ()	store the ringer 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 a 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 75).

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

 > **More** > **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

 > More > 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.



Storing Longer Numbers

A phonebook number can contain a maximum of 32 digits and characters. You can create multiple phonebook entries to store a dialing sequence that exceeds the 32-character limit. Then you can send the entries in sequence to dial the number.

To store a dialing sequence longer than 32 characters:

Do This

- 1 Create a phonebook entry to store the first part of the dialing sequence (for example, the number for your long-distance service provider).
- 2 Create a second phonebook entry to store the next part of the dialing sequence (for example, the country code and phone number for an international call).
- 3 Repeat step 2 as necessary to store the entire dialing sequence. (For example, create a third phonebook entry to store your calling card number and PIN number.)

To dial a dialing sequence stored as multiple phonebook entries:

Do This

- 1 Dial the first phonebook entry. Perform any pause or wait tasks, if necessary, to complete the dialing sequence. Your phone returns to the idle display.



Do This

- 2 Press  > **More** > **Phonebook** to re-open the phonebook.
- 3 Highlight the second phonebook entry, then press  > **Send Tones** to send the next portion of the dialing sequence.
- 4 Repeat steps 2 and 3 as necessary to send the entire dialing sequence.

Editing a Phonebook Entry

Find the Feature

 > **More** > **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 70-72.

Deleting a Phonebook Entry

Find the Feature

 > **More** > **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

 > **More** > **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 use as wallpaper and screen saver images.

Note: Your phone may include predefined images. These images are identified by a ★ (predefined object) indicator. You cannot rename, delete, or view details about predefined images.

Find the Feature

 > **Media Center**
> **Picture Viewer**

Press	To
1 	scroll to the picture
2 SELECT ()	view the picture
3  up or down	view the previous/next picture
or	
DETAILS ()	view picture information
or	
	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.
Set as Wallpaper	Set the picture as your phone's wallpaper image.
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 wallpaper and screen saver images, see page 130 and page 131.

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.

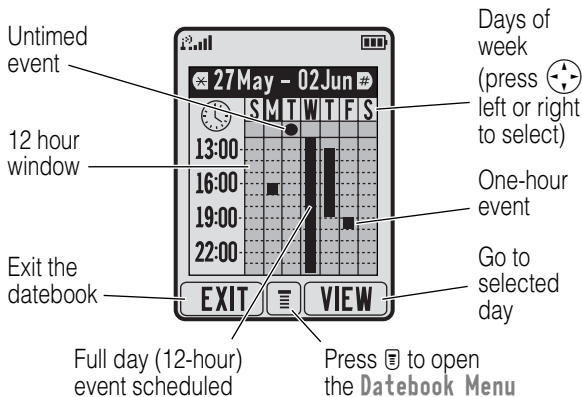
To schedule or review datebook events:

Find the Feature

 > **Datebook**

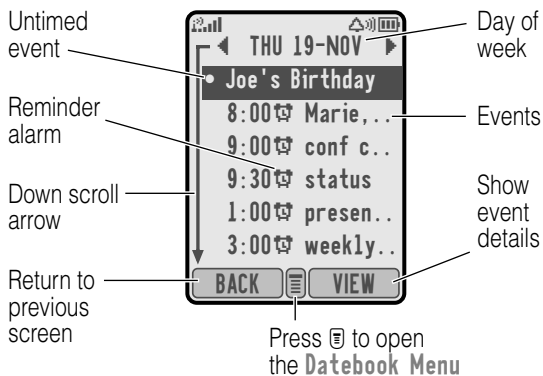
Week View

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



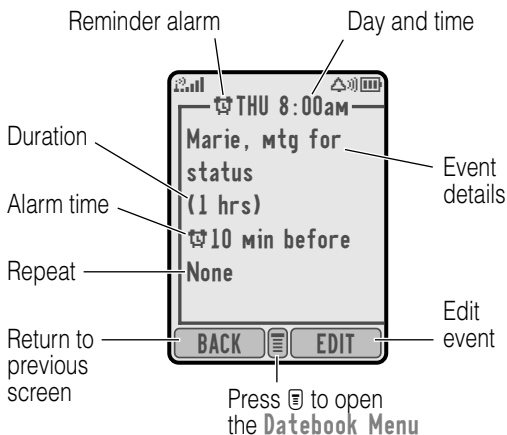
Day View

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  left or right	scroll to the day
2 VIEW ()	display the day view
3 	scroll to the event
4 VIEW ()	display the event view
5 EDIT ()	edit the event



Press	To
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  left or right	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
or	
 to the right	
10 DONE ()	save the copy of the event



Press	To
11 	scroll to and edit event information, if necessary
12 DONE ()	store the information

Deleting an Event

Find the Feature

 > **Datebook**

Press	To
1 	left or right 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

Synchronizing with TrueSync Software



You can synchronize datebook 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.



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.



Radio

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 ⏻ > Media Center > Radio

Press	To
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  left or right	scroll to the next frequency
or	scroll to the next available
Press and hold  left or right	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

> **More** > **Messages**
 > **VoiceMail Setup**

Press	To
1 keypad keys	enter your voicemail number
	Tip: You can store your PIN code with the voicemail number. See page 72.
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 70 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 regular 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

 > More > 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).



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

 > **More** > **Messages**
 > **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 92.

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

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 92). If you want to save a message, you should lock it to prevent it from being deleted during cleanup.

Find the Feature

 > **More** > **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.
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.



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

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 **1** one time, wait for the space to appear, then enter the next number or email address.

Find the Feature

 > **More** > **Messages**
> **Create Message**

Press	To
1 CHANGE 	select 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. 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 99)
6 OK (⏮)	store the message
7 CHANGE (⏮)	select Priority
8 ⬆	scroll to the priority you want
9 SELECT (⏮)	set the priority
10 CHANGE (⏮)	select Call
11 keypad keys	enter a number for the recipient to call back
12 OK (⏮)	store the number
13 DONE (⏮)	finish the message
Your phone displays the total pages in the message.	

Press	To
14 YES (⏏)	send the message
or	
NO (⏏)	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

☰ > **More** > **Messages**
> **Quick Notes**

Press	To
1 ⬆	scroll to the quick note
2 READ (⏏)	read the quick note
or	
☰	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.



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

Viewing the Status of Sent Text Messages

Messages that you send are stored in the outbox.

Find the Feature

 > **More** > **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

 > 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

 > **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 70.

Find the Feature

 > **Ring Styles**
> **Style Detail**

Note: *Style* represents the current ring style.

Press	To
1 	scroll to Ringer IDs
2 CHANGE ()	change the ringer IDs setting
3 	scroll to On or Off
4 SELECT ()	select the option



Set Ringer or Keypad Volume

Find the Feature

 > **Ring Styles**
> **Style Detail**

Note: *Style* represents the current ring style.

Press	To
1 	scroll to Ring Volume or Key Volume
2  left or right	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

 > **Media Center**
> **My Tones**

Press	To
1 	scroll to [New Tone]
2 SELECT ()	select [New Tone]
3 CHANGE ()	select Notes
4 keypad keys	enter notes (see following section)
5 OK ()	store the notes
6 CHANGE ()	select Name
7 keypad keys	enter a name for the tone



Press	To
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 	1	set octave one
	2	set octave two
	3	set octave three
2 ABC 	A	note A
	B	note B
	C	note C
3 DEF 	D	note D
	E	note E
	F	note F
4 GHI 	G	note G
	R	rest
7 PQRS 	#	sharp
	b	flat
0 + 	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.
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  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...@) (1...@) (1...@)	set octave three	3
2 (2 ABC) (2 ABC) (2 ABC)	enter a quarter note C	C
3 (3 DEF) (3 DEF) (7 PQRS) (7 PQRS)	enter a quarter note E flat	Eb
4 (4 GHI) (4 GHI) (0+) (0+)	enter a half rest	Rh
5 (4 GHI) (0+) (0+) (0+)	enter a whole note G	Gw



Play a Tone

Find the Feature

≡ > Media Center
> My Tones

Press	To
1 (↑ ↓ ← →)	scroll to the tone
2 ≡	open the My Tones Menu
3 (↑ ↓ ← →)	scroll to Play
4 SELECT (⏏)	select Play

Press	To
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

☰ > **Media Center**
> **My Tones**

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

☰ > **Media Center**
> **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

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

 > **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  > **More** > **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

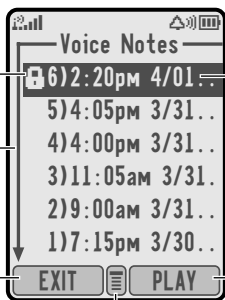
Find the Feature

 > Voice Notes

Locked
voice
note

Down
scroll
arrow

Return to
previous
screen



Time/date
recorded

Play the
highlighted
voice note

Press  to open the
Voice Notes Menu



Voice Notes

Playing a Voice Note

Find the Feature

 > Voice Notes

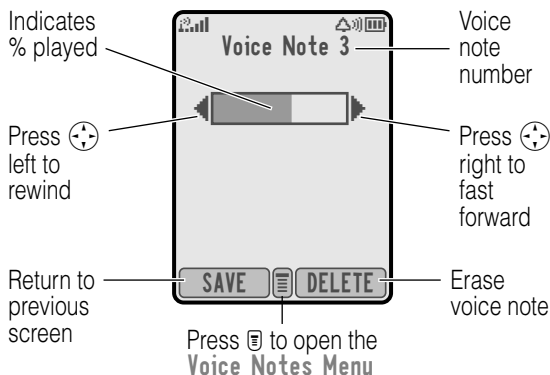
Press	To
1 	scroll to the voice note
2 PLAY ()	play the voice note

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

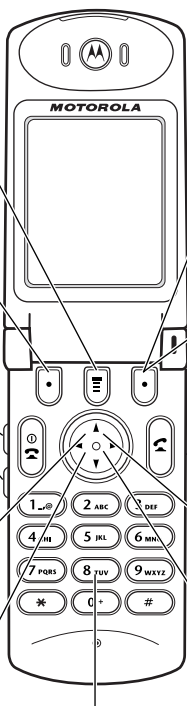
Stop playback and go to **Voice Notes Menu**.

Stop playback and return to voice notes list.

Raise or lower playback volume of voice note.

Press **left** to rewind three seconds, resume playing. Press **left and hold** to rewind to the beginning.

Press **up/down** to stop playback and scroll to next voice note.



Press any number key to alternately stop and start playback.

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

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

Press **right** to fast forward three seconds, resume playing. Press **right and hold** to fast forward to end.

When playback is complete, press **right** to restart.



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

 > Voice Notes

Press	To
1 	scroll to the voice note
2 	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 	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

 > 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.



Voice Notes

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

 > Web Browser > Home

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  > **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
	open the Browser Menu



Calculator

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

Calculating Numbers

Find the Feature

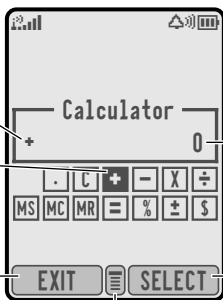
 > **Calculator**

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

Selected function appears here

Press  to highlight a function

Exit the calculator



Entered number

Perform the highlighted function

Press  to open the **Calculator Menu**



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)
+	Add
-	Subtract
x	Multiply
÷	Divide
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
=	Calculate the result
%	Divide the displayed value by 100
±	Change the entry's sign (positive/negative)
\$	Calculate the exchange rate



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 	highlight the \$ function
5 SELECT ()	perform the conversion



Get It Now



You can download a variety of applications onto your phone, such as entertainment (games, ring tones, images) and productivity tools (expense tracking, news delivery, flight information).

These applications are stored in the **Get It Now** folder on your phone.

Downloading an Application

Find the Feature

 > **Get It Now**
> **Get It Now Shop**

Press	To
1 START (⏏)	connect to Get It Now shop Your phone displays a list of application categories
2 	scroll to a category
3 SELECT (⏏)	view a list of applications available for downloading
4 	scroll to the application you want to download





Press	To
5 SELECT (⏎)	view pricing options for the application Pricing options vary by application. You may be presented with options to purchase the application, subscribe for a monthly fee, or pay an unlimited usage charge.
6 ⬆️	scroll to the purchase you wish to make
7 SELECT (⏎)	select your purchase
8 YES (⏎)	confirm your purchase Your phone downloads and installs the application. The phone then asks if you wish to run the application.
9 YES (⏎)	launch the application
or	
NO (⏎)	exit Get It Now shop

Launching an Application

Find the Feature

☰ > Get It Now
> application

Notes:

- If you receive an incoming call while using an application, your phone pauses the application, notifies you of the call, and prompts you to answer. When the call ends, the phone gives you the option to return to the application.
- If you receive an incoming call while downloading an application, your phone forwards the call to your voicemail. If you do not have voicemail, the caller receives a busy signal.

Disabling or Removing an Application

The memory capacity of your phone determines how many applications you can have installed at one time. To free up memory for a new application, you can temporarily disable an existing application, or permanently remove the existing application from your phone.

When you *disable* an application, your phone removes the application from memory but retains the purchase information. You can restore the disabled application at a later time for no additional charge.

When you *remove* an application, your phone completely removes the application from the phone. To reinstall the



application, you must download it and pay for it again as described on page 123.

Find the Feature

 > **Get It Now**
> **Get It Now Shop**

Press	To
1 OPTIONS (⏏)	view the list of applications installed on your phone
2 	scroll to the application you want
3 SELECT (⏏)	view the application's memory usage information, and expiration information, if applicable
4 DISABLE (⏏)	temporarily disable the application
or	
REMOVE (⏏)	permanently remove the application from memory
5 YES (⏏)	confirm your selection Your phone disables or removes the application

Note: Airtime charges apply to remove an application subscription. Contact your service provider for more information.



Restoring a Disabled Application

Find the Feature

 > Get It Now
> Get It Now Shop

Press	To
1 OPTIONS ()	view the list of applications installed on your phone
2 	scroll to the application you want to restore
3 SELECT ()	view the application's memory usage information, and expiration information, if applicable
4 RESTORE ()	restore the application
or	
REMOVE ()	permanently remove the application from memory

Note: Airtime charges apply to restore an application. Contact your service provider for more information.



Viewing Get It Now Information and History

To view the total amount of phone memory available for Get It Now applications, and the memory used for current installed applications:

Find the Feature

☰ > Get It Now
> Get It Now Shop
> Options
> Information

To view Get It Now version information, and a log of application activities:

Find the Feature

☰ > Get It Now
> Get It Now Shop
> Options > View Log

Your phone lists the date(s) on which application activities occurred. Highlight a date to view the action performed on that date. Your phone documents the following activities:

- download and install application
- disable application
- remove application
- restore application
- end application subscription



Adjusting Your Settings

Setting the Menu View

You can set your phone to display the main menu as graphic icons (the default setting) or as a text-based list.

Find the Feature

 > **Settings**
> **Personalize**
> **Main Menu** > **View**

Press	To
1 	scroll to Icons or List
2 SELECT ()	select the menu view

Reordering Menu Items

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

Find the Feature

 > **Settings**
> **Personalize**
> **Main Menu** > **Reorder**

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



Personalizing Soft Keys and Menu Icons

You can change the menu feature icons and soft key labels (left  and right ) that appear in the idle display, to access different main menu items from the idle display.

Find the Feature

 > **Settings**
 > **Personalize**
 > **Home Keys**

Press	To
1 	scroll to Scroll Up , Scroll Down , Scroll Left , Scroll Right , Left Soft Key , or Right Soft Key
2 CHANGE ()	select the icon or soft key
3 	scroll to a menu feature
4 SELECT ()	confirm the menu feature

Wallpaper

You can set a picture or an animation as a wallpaper (background) image in your phone's idle display.

Note: When you set an animation as a wallpaper image, only the first frame of the animation is displayed.

Find the Feature

 > **Settings**
 > **Personalize**
 > **Wallpaper**



Press	To
1 	scroll to Picture
2 CHANGE ()	open the picture viewer
3  up or down	scroll to a picture/animation Scroll to (None) to turn off the wallpaper image.
4 SELECT ()	select the image
5 	scroll to Layout
6 CHANGE ()	adjust the image layout
7 	scroll to Center or Tile Center places the image in the center of the display and, if necessary, shrinks the image to fill the display. Tile fills the display with adjacent copies of the image
8 SELECT ()	confirm the layout setting
9 DONE ()	save wallpaper settings

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

 > **Settings**
 > **Personalize**
 > **Screen Saver**

Press	To
1 	scroll to Picture
2 CHANGE ()	open the picture viewer
3  up or down	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
7 	scroll to the inactivity interval that triggers the screen saver
8 SELECT ()	confirm the delay setting
9 DONE ()	save screen saver settings

Setting Display Color

You can select the color palette that your phone uses to display indicators, highlights, and soft key labels.

Find the Feature

 > **Settings**
 > **Personalize**
 > **Color Style**



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).

Find the Feature

 > **Settings** > **Location**

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

 > **Settings**
 > **Initial Setup**
 > **TTY Setup**

Press	To
1 	scroll to TTY Setup
2 CHANGE (	change the TTY mode
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 134.



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

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

Press	To
1 	scroll to the time delay





Press	To
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

⌵ > **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 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.

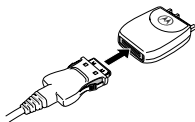
Note: Not all devices are compatible with a cable connection. Check your computer or hand-held device to determine the type of cable you need.

Serial Cable

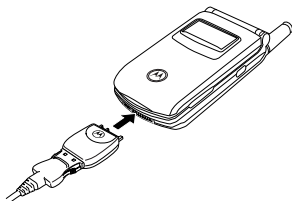


Do This

- 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.

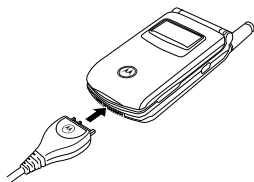


- 3 Plug the other end of the cable into the serial interface connection on the device and tighten the screws, if present.

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 139-141 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 139-141.

Set Up Your Phone

Find the Feature

☰ > **Settings**
 > **Connection**
 > **Incoming Call**

Do This	To
1 Press CHANGE (⏏)	select Next Call
2 Press ⬆	scroll to Data In Only or Fax In Only



Do This	To
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 143.

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**
- > **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:  > **Settings** > **Security** > **Phone Lock** > **Unlock Code**.

To change a code or password:

Find the Feature

 > **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

 > 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

 > 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 59.



Security

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   . 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 145.

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 145.
My phone does not ring.	If you see  or  in the display, then the ringer is turned off. See page 101. Also, the ringer may be set to Silent even though your phone is set to an audible ring style. See page 101.





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 101.
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 (☰ > 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 92.
How do I see the calls I sent or received?	To see the most recent calls you dialed or received:  > More > 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: > Settings > Other Settings > Initial Setup > DTMF - Press to scroll to Long or Short (some analog networks may not recognize short tones). - Press SELECT () 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 61. You can also use the Backlight feature to change the length of time that the display backlight stays on. See page 60.

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 133.
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 7 POB , 4 CHI , 6 MNO , 6 MNO , 3 DEF , # , ☐ , ☐ (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 T720 CDMA 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 1.6 W/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 1.53 W/kg, and when worn on the body, as described in this user guide, is 1.30 W/kg. (Body-worn 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.
3. Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognitive function in man. *Int. J. Radiat. Biol.*, April 8, 1999.
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

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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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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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