INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:

Motorola T720 GSM R2.0 Mobile Phone User's Guide

Translation Draft

June 4, 2002

PRELIMINARY

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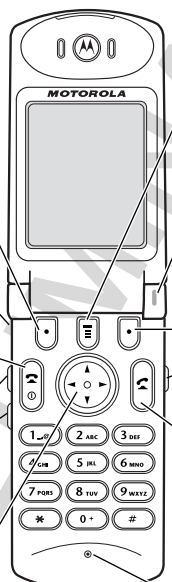
Welcome

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

Accessory Connector Port
Insert charger and phone accessories.

Microphone

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.

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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
- **Games & Apps**
- **Voice Notes**
- **Shortcuts**
- **Calculator**
- **Settings**
  (see next page)
- **Chat**
- **Web Access**
  - Browser
  - Web Shortcuts
  - Stored Pages
  - History
  - Goto URL
  - Browser Setup
- **More**
  (go to following menu items)
- **Services**
  - SIM Toolkit
  - Fixed Dial
  - Service Dial
  - Quick Dial
- **Web Sessions**
- **Phonebook**
- **Messages**
  - Create Message
  - Voicemail
  - Text Msgs
  - Email Msgs
  - Browser Alerts
  - Info Services
  - Quick Notes
  - Outbox
  - Drafts
- **Datebook**
- **Recent Calls**
  - Received Calls
  - Dialed Calls
  - Notepad
  - Call Times
  - Call Cost
  - Data Times
  - Data Volumes
- **Ring Styles**
  - Style
  - *Style* Detail

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

Shortcuts
Change display zoom: Press ⊟, then press and hold ⊟
Change ringer alert: Press down volume key to switch to vibrate alert, then silent alert. Press up volume key to reset ring alert.
Display my phone number: Press ⊟ (#)
Go to dialed calls list: Press ↶
Exit menu system: Press ⏻

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Settings Menu

- **Personalize**
  - Main Menu
  - Home Keys
  - Color Style
  - Greeting
  - Banner Graphic
  - Wallpaper
  - Screen Saver
  - Quick Dial
- **Call Forward**
  - Voice Calls
  - Fax Calls
  - Data Calls
  - Cancel All
  - Forward Status
- **In-Call Setup**
  - In-Call Timer
  - Call Cost Setup
  - My Caller ID
  - Talk and Fax
  - Answer Options
  - Call Waiting
- **Phone Status**
  - My Tel. Numbers
  - Credit Info/Available
  - Active Line
  - Battery Meter
  - Other Information
- **Security**
  - Phone Lock
  - Lock Application
  - Fixed Dial
  - Call Barring
  - SIM Pin
  - New Passwords
- **Initial Setup**
  - Time and Date
  - 1-Touch Dial
  - Auto Redial
  - Backlight
  - Status Light
  - Zoom
  - Scroll
  - Animation
  - Language
  - Battery Save
  - Contrast
  - DTMF
  - Master Reset
  - Master Clear
- **Java Tools**
  - Java System
  - Network Access
  - DNS IP
- **Network**
- **Car Settings**
- **Headset**

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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 ranges of 880 MHz to 915 MHz, 1710 MHz to 1785 MHz, and 1850 MHz to 1910 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 ____ watts to ____ watts in digital mode for the 900MHz band, ____ watts to ____ watts in digital mode for the 1800MHz band, and ____ watts to ____ watts in digital mode for the 1900MHz band.

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:

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- 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.**

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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.

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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.

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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.

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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.

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Getting Started

What's in the Box?

Your digital 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.

About This Guide

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

Note: A reference guide for your phone is also available that describes less frequently used phone features.

To obtain the reference guide for your phone, or another copy of this user guide, see the Motorola Web site at:

`http://motorola.com/consumer/manuals`

or contact the Motorola Customer Call Center at 1-800-331-6456 in the United States or 1-800-461-4575 in Canada.

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Select 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	M > Media Center > Picture Viewer

This example shows that you must press M, scroll to and select Media Center, then scroll to and select Picture Viewer.

Optional Features

This label identifies an optional network, SIM card, 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.

Installing the SIM Card

Your SIM (Subscriber Identity Module) card contains your phone number, service details, and phonebook/message memory.

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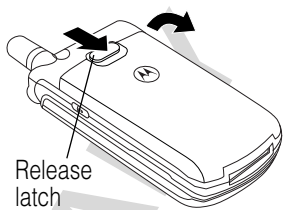
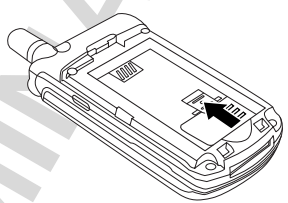
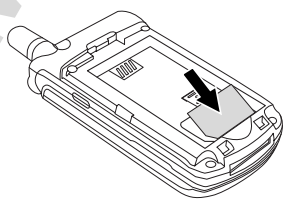
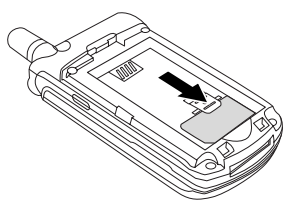
Caution: Do not bend or scratch your SIM card. Avoid exposing your SIM card to static electricity, water, or dirt.

Do This	
1 If necessary, slide down the battery door release latch and lift the door off of the phone.	
2 Slide the SIM card latch up.	
3 Insert the SIM card into the SIM card tray with the notch in the lower left corner and the gold plate facing down.	
4 Slide the SIM card latch down to lock the SIM card in place.	

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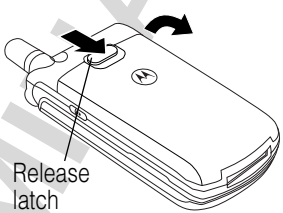
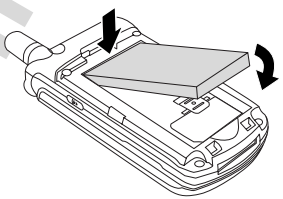
Installing the Battery

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

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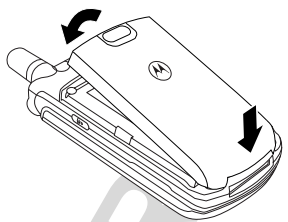
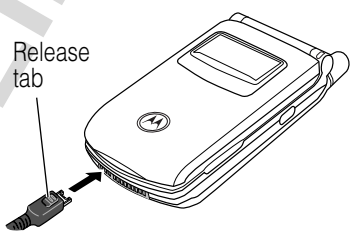
Do This	
4 Insert the teeth at the bottom of the battery door into the slot at the base of the phone, then push the door down and snap it into place.	

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.	

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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.

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.

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- 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**
  See page 36.
- **Turn off the screen saver**
  Using an animated screen saver reduces your phone's talk and standby time.
- **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.
- **Turn off the display backlight**
  See page 27.

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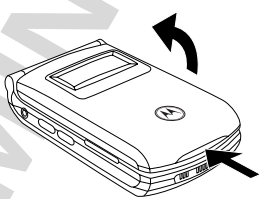
Changing the Convertible Covers

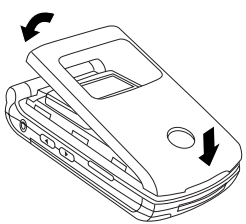
You can change the flip cover and battery cover on your phone to personalize its appearance. Matching front and back cover sets are available in a variety of colors and designs.

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

To remove a flip cover:

Do This	
Insert your fingernail into the slot at the base of the flip cover, then pull up and lift the cover off the phone	

To attach a flip cover:

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

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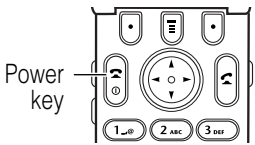
Turning Your Phone On

Do This		To
1	Open your phone	expose the keypad
2	Press and hold (PWR) 	turn on your phone
3	If necessary, enter your SIM card PIN code and press OK (⊙)	unlock your SIM card **Caution:** If you enter an incorrect PIN code three times in a row, your SIM card is disabled and your phone displays SIM Blocked.
4	If necessary, enter your four-digit unlock code and press OK (⊙)	unlock your phone

Viewing Your Phone Number

From the idle display:

Press	To
☰ (#)	view your phone number

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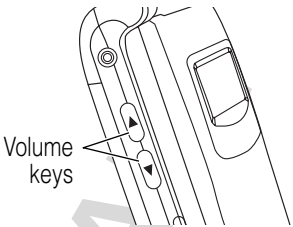
Note: Your phone number must be stored on your SIM card to use this feature. To store your phone number on the SIM card, see page 36. If you do not know your phone number, contact your service provider.

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 once to switch to vibrate alert. Press it again to switch to silent alert. Press the up volume key to cycle back to vibrate alert, then ring alert.
- turn off an incoming call alert

Making a Call

Press	To
1 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.

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Press	To
2	make the call
3	end the call and "hang up" the phone when you are finished

Answering a Call

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

Press	To
1 or ANSWER	answer the call
2	end the call and "hang up" the phone when you are finished

Tip: When the phone flip is active, simply open the phone to answer the call. (To activate, press > Settings > In-Call Setup > Answer Options > Open to Answer)

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

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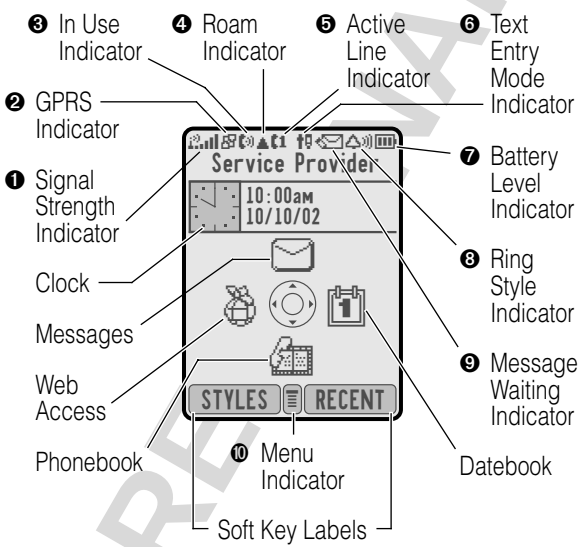
Learning to Use Your Phone

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 idle display. Labels at the bottom

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corners of the display show the current soft key functions. The menu indicator in the bottom center of the display indicates that you can press ⊟ to go to the main menu to see more features.

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 **GPRS Indicator** Shows that your phone is using a high-speed GPRS network connection.

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

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

❺ **Active Line Indicator** Shows the current active phone line.

❻ **Text Entry Mode Indicator** Appears when you are in a text entry screen, to show the current active text entry mode.

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

❽ **Ring Style Indicator** Shows the ring style setting.

= loud ring = soft ring
= vibrate = vibrate and ring
= silent

PRELIMINARY

❾ **Message Waiting Indicator** Appears when you receive a text or email message.

❿ **Menu Indicator** Indicates that you can press ☰ to go to the main menu or open a feature sub-menu.

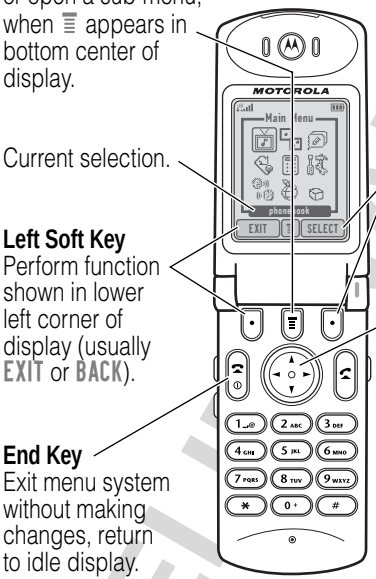
Display Settings

Note: See the reference guide for more information about using these features.

Feature	Description
Zoom	Zoom in/out on primary display: ☰ > Settings > Initial Setup > Zoom
Contrast	Set display contrast: ☰ > Settings > Initial Setup > Contrast
Backlight	Adjust display and keypad backlights: ☰ > Settings > Initial Setup > Backlight

PRELIMINARY

Using Menus



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.

PRELIMINARY

Menu Icon	Feature	Menu Icon	Feature
	Media Center		Games & Apps
	Voice Notes		Shortcuts
	Calculator		Settings
	Phonebook		Web Access
	More		Messages
	Datebook		Recent Calls
	Ring Styles		Services

Menu Settings

Note: See the reference guide for more information about using these features.

Feature	Description
Language	Set menu language: M > Settings > Initial Setup > Language
Master Reset	Reset all options *except* unlock code, security code, lifetime timer: M > Settings > Initial Setup > Master Reset
Master Clear	Reset all options *except* unlock code, security code, lifetime timer, clear all user settings and entries *except* SIM card information: M > Settings > Initial Setup > Master Clear

PRELIMINARY

Entering Text

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

Choose 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.
Tap Method	Enter letters, numbers, and symbols by pressing a key one or more times.
Numeric	Enter numbers only.
Symbol	Enter symbols only.
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.

Use 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.

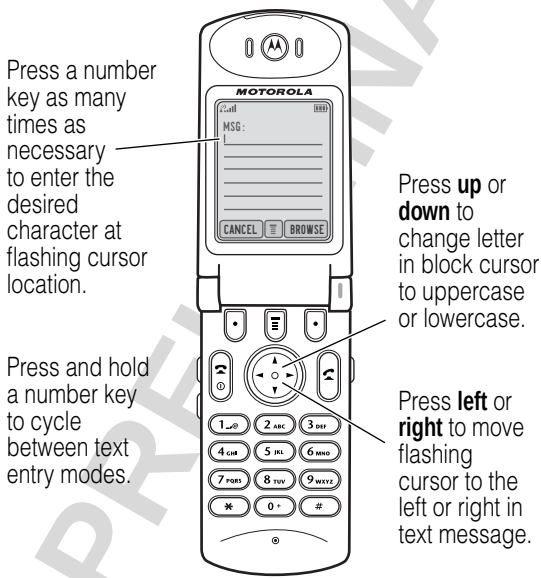
Press	To
1 A number key one or more times	select a letter, number, or symbol shown in the "Character Chart" on page 32

PRELIMINARY

Press	To
2 Number keys	enter the remaining characters
3 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 32.



PRELIMINARY

- 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 characters with the tap method.

1 .@	*space* . 1 ? ! , @ _ & ~ : ; " - ( ) ' ¿ ¡ % £ $ ¥ ¤ €
2 ABC	a b c 2 ä å á à â ã α ά β ç
3 DEF	d e f 3 δ ë é è ê ε έ φ
4 GHI	g h i 4 ï í î γ η ή ι ί
5 JKL	j k l 5 κ λ
6 MNO	m n o 6 ñ ö ø ó ò ô õ μ ν ω ώ
7 PQRS	p q r s 7 π ß 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.

PRELIMINARY

Use 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.

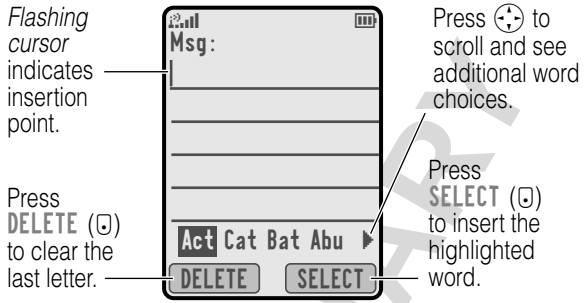
Press ☰ > **Entry Method** from any text entry screen and select the **iTAP** menu option.

Entering Words

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

PRELIMINARY

For example, to spell the word “act,” press 2 ABC 2 ABC 8 TUV. The display shows:



Entering Novel Words

You may enter a word that the iTAP software does not recognize. If the word 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

PRELIMINARY

Your phone stores the unrecognized word, and includes it in the list of alternative word choices the next time you enter it. When memory space for storing unrecognized words is filled, your phone deletes the oldest words as new words are added.

Entering Punctuation

Press	To
1 or 0	enter punctuation or other characters as shown in the "Character Chart" on page 32

Using 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

Entering 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

PRELIMINARY

Do This	To
3 Press SELECT (⊙)	enter the number at the flashing cursor location

Deleting Letters and Words

Place the cursor to the right of the text that 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

Other Phone Features

Note: See the reference guide for more information about using these features.

Feature	Description
Status Light	Turn on/off the status light: ☰ > Settings > Initial Setup > Status Light
Name & Number	Store your name and phone number on your SIM card: ☰ > Settings > Phone Status > My Tel. Numbers
Time & Date	Set the time and date: ☰ > Settings > Initial Setup > Time and Date

PRELIMINARY

Feature	Description
Active Line	Change the active phone line: > Settings > Phone Status > Active Line
Battery Save	Conserve battery power: > Settings > Initial Setup > Battery Save

PRELIMINARY

Calling Features

For basic instructions on how to make a call and answer a call, see page 23.

Redialing a Number

Press	To
1	view the dialed calls list
2	scroll to the entry you want to call
3	redial the number

Using Caller ID

Incoming Calls

Calling line identification (caller ID) displays the phone number for incoming calls in your phone's external and internal displays.

Your phone displays the caller's name when the name is stored in your phonebook, or Incoming Call when caller ID information is not available.

Outgoing Calls

You can show or hide your phone number as an ID for the calls that you make.

PRELIMINARY

Find the Feature MENU > Settings > In-Call Setup > My Caller ID

You can override the default caller ID setting when you make a call. While dialing (with digits visible in the display):

Press	To
MENU > Hide ID/Show ID	hide or show your caller ID for the next 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 or the SIM card is not inserted.

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	SEND	call the emergency number

PRELIMINARY

Dialing an International Number

To dial the local international access code:

Do This	To
Press and hold 0+	insert the international access code (+) for the country from which you are calling

Viewing Recent Calls

Your phone keeps lists 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.

PRELIMINARY

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

Calling With Speed Dial

Each entry you store in your phonebook is assigned a unique *speed dial* number that identifies the location where the entry is stored in phone memory or on the SIM card. 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
3	call the entry

Calling With 1-Touch Dial

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

Using 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.

PRELIMINARY

Store Your Voicemail Number

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

Find the Feature MENU > More > Messages
MENU > VoiceMail Setup

Press	To
1 keypad keys	enter your voicemail number
2 OK (⊙)	store the number

Receive 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

Listen to a Voicemail Message

Find the Feature MENU > More > Messages > VoiceMail

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

PRELIMINARY

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 (⊙)	switch between calls
	or	
	LINK (⊙)	connect the two calls
	or	
	☰ > End Call On Hold	end the call on hold

You must turn on call waiting to use the feature. To turn call waiting on or off:

Find the Feature ☰ > Settings > In-Call Setup > Call Waiting

PRELIMINARY

Other Calling Features

Note: See the reference guide for more information about using these features.

Feature	Description
View Your Phone Number	During a call: Menu > My Tel. Numbers **Note:** Your phone number must be stored on your SIM card to use this feature. See page 36.
Automatic Redial	Automatically redial calls that fail due to busy conditions: Menu > Settings > Initial Setup > Auto Redial Network / Subscription Dependent Feature
Cancel Incoming Call	While phone is ringing or vibrating: Press Ignore or IGNORE (Right Soft Key)
Turn Off Call Alert	While phone is ringing or vibrating: Press either volume key
Notepad	Retrieve the last number entered on the keypad: Menu > More > Recent Calls > Notepad
Attach Number	While dialing (digits visible in display): Menu > Attach Number to attach a number from the phonebook or recent call lists

PRELIMINARY

Feature	Description
Hold Call	During a call: Press HOLD (⊡) (if available) or ☰ > Hold
Transfer Call	During a call: ☰ > Transfer, dial the number, press ⌐
Conference Call	During a call: ☰ > Hold, dial next number, press ⌐, press LINK (⊡)
Call Forwarding	Set up or cancel call forwarding: ☰ > Settings > Call Forward
Call Barring	Restrict outgoing or incoming calls: ☰ > Settings > Security > Call Barring

PRELIMINARY

Messages and Chat

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

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

Note: Your text message inbox must be set up *before* you can send and receive messages. In many cases, your service provider has already set up the text message inbox for you. If necessary, see the reference guide for text message inbox setup instructions.

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 ⊕ to the right to insert a space.

Shortcut: Enter a phone number in the idle display, then press ☰ > Send Message to open a new text message with the number in the To field. Go directly to step 4 to continue.

Find the Feature ☰ > More > Messages > Create Message

Press	To
1 CHANGE (⊙)	select To

PRELIMINARY

Press		To
2	keypad keys	enter one or more phone numbers and/or email addresses **Tip:** Press ⊕ to the right to insert a space between each number/address that you enter manually.
	or	
	BROWSE (⊡)	select numbers/addresses from the phonebook or recent call lists
3	OK (⊡)	store the recipient list
4	CHANGE (⊡)	select Msg
5	keypad keys	enter the message (see page 30) **Tip:** Press ☰ to change text entry mode, or to insert images or sounds in the message.
	or	
	BROWSE (⊡)	insert a quick note
6	OK (⊡)	store the message
7	DONE (⊡)	finish the message

PRELIMINARY

Press	To
8 YES (⊙)	send the message
or	
NO (⊙)	cancel the message or save it as a draft.

Receiving a Text Message

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

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

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

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

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

PRELIMINARY

Other Message Features

Note: See the reference guide for more information about using these features.

Feature	Description
Inbox Setup	Set up or edit the text message inbox settings: Menu > More > Messages Menu > Text Msg Setup
Quick Note	Send or create a quick note message: Menu > More > Messages > Quick Notes
Insert Pictures & Sounds	While composing a message: Menu > Insert
Sent Messages	View sent messages: Menu > More > Messages > Outbox
Received Messages	Read received messages: Menu > More > Messages > Text Msgs **Tip:** Press Menu to perform various operations on the selected message.
Store Pictures & Sounds	Highlight a picture or sound in a message, then: Menu > Store
Browser Alerts	Read alert messages received by your micro-browser: Menu > More > Messages > Browser Alerts

PRELIMINARY

Feature	Description
Info Services	Read subscription-based information services messages: Ⓜ > More > Messages > Info Services
Drafts	View messages saved in drafts folder: Ⓜ > More > Messages > Drafts

Using Chat

You can exchange text messages in real time with another wireless phone user in a *chat session*. The messages you send appear immediately on your chat partner's phone.

Start a Chat Session

Find the Feature Ⓜ > Chat
Ⓜ > New Chat

Press	To
1 keypad keys	enter your Chat Name
2 OK (⊙)	save your Chat Name
3 keypad keys	enter your chat partner's phone number
or	
BROWSE (⊙)	select a number from the phonebook or recent call lists
4 OK (⊙)	store the number

PRELIMINARY

Press		To
5	keypad keys	enter your first chat message (see page 30)
	or	
	BROWSE (⊙)	insert a quick note
6	OK (⊙)	send the chat message When your chat partner replies, the reply appears below your text.
7	CHAT (⊙)	enter a reply to your partner
8	OK (⊙)	send your reply

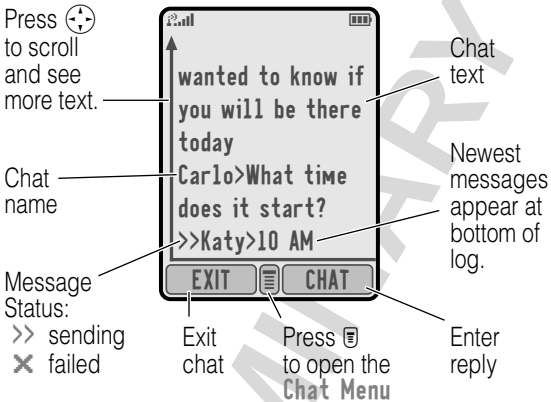
Notes:

- You can start a chat session from a text message. Press ☰ and select Chat to start a new session with the sender's Reply To number in the To field.
- When your phone displays Memory is Full!, you must delete some existing messages from your inbox, outbox, or drafts folder to receive new chat messages.

PRELIMINARY

Use the Chat Log

The chat log displays the messages exchanged in a chat session.



Other Chat Features

Note: See the reference guide for more information about using these features.

Feature	Description
Respond to Chat	When you receive a chat message: Press ACCEPT (⊙) or IGNORE (⊙)
End Chat	During a chat session: ☰ > End Chat

PRELIMINARY

Email

You can send and receive email messages from your phone. New email messages that you receive are stored on your service provider's email server until you download them to your phone.

Note: Your email message inbox must be set up *before* you can send and receive email messages. In many cases, your service provider has already set up the email inbox for you. If necessary, see the reference guide for email inbox setup instructions.

Sending an Email Message

You can send an email message to one or more recipients. You can manually enter each recipient's email address, or select addresses from the phonebook.

Note: When you manually enter email addresses, you must insert a space, comma, semicolon, or colon between each address. Press ⊕ to the right to insert a space.

Find the Feature

M > More > Messages > Email Msgs
M > Create Email

Press	To
1 CHANGE (⊡)	select To

PRELIMINARY

Press		To
2	keypad keys	enter one or more email addresses
	or	
	BROWSE (⊙)	select addresses from the phonebook
3	OK (⊙)	store the address(es)
		Repeat steps 1 to 3 to store email addresses in the cc and bcc fields, if desired
4	CHANGE (⊙)	select Subject
5	keypad keys	enter the subject (see page 30)
6	OK (⊙)	store the subject
7	CHANGE (⊙)	select Msg
8	keypad keys	enter the message (see page 30)
	or	
	BROWSE (⊙)	insert a quick note
9	OK (⊙)	store the message
10	CHANGE (⊙)	select Priority
11	⊕	scroll to Normal or Urgent
12	SELECT (⊙)	set the priority
13	DONE (⊙)	finish the message

PRELIMINARY

Press	To
14 YES (⊙)	send the message
or	
NO (⊙)	cancel the message or save it as a draft

Receiving an Email Message

Note: Your email inbox must be set up before you can receive email messages.

If your phone is set up to periodically check for new email messages, your phone displays the ✉ (message waiting) indicator and a New Message notification, and gives an alert when you receive an email message.

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

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

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

PRELIMINARY

Other Email Features

Note: See the reference guide for more information about using these features.

Feature	Description
Email Inbox Setup	Set up or edit the email message inbox settings: Ⓜ > More > Messages > Email Messages Ⓜ > Email Msg Setup
Insert Quick Note	Insert a quick note into the email Msg body: Press BROWSE (⊙)
Sent Email Messages	View sent email messages: Ⓜ > More > Messages > Email Msgs > Outbox
Received Email Messages	Read received email messages: Ⓜ > More > Messages > Email Msgs **Tip:** Press Ⓜ to perform various operations on the selected message.
Manually Send & Receive	Manually send and receive email messages: Ⓜ > More > Messages > Email Messages Ⓜ > Send/Receive Mail
Folders	Create personal folders to organize your email messages: Ⓜ > More > Messages > Email Msgs > Folder

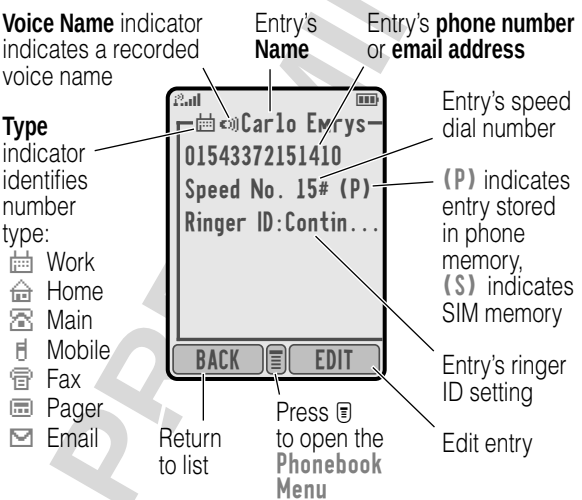
PRELIMINARY

Setting Up Your 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 ⊟ > **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



PRELIMINARY

Note: Entries stored on the SIM card do not have Type, Voice Name, or Ringer ID information.

Creating a Phonebook Entry

You can store an entry on your phone or on the SIM card.

Enter Information

To create or edit a phonebook entry:

Find the Feature > More > Phonebook
> New > Phone Number or Email Address

Shortcut: Enter a phone number in the idle display, then press STORE (⊡) to create a phonebook entry with the number in the No. field.

A phone number or email address is required for a phonebook entry. All other information is optional. You can enter the following information for a phonebook entry.

Item	Description
Name	entry name (see page 30)
No. or Email	entry's phone number or email address (see page 30)
Type	entry type **Note:** This option is not available for entries stored on the SIM card.
Store To	entry's physical storage location (Phone or SIM)

PRELIMINARY

Item	Description
Voice Name	record a voice name for the entry **Note:** This option is not available for entries stored on the SIM card.
Speed No.	entry's default speed dial number (select to change)
Ringer ID	select to set 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. To activate ringer IDs, see page 65. **Note:** This option is not available for entries stored on the SIM card.
MORE	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

PRELIMINARY

Storing a PIN Code With the Phone Number

You can store a PIN code with the phone number for calls that require additional digits (for example, to make a calling card call, or to retrieve voicemail or answering machine messages). Insert one or more of the following characters in the dialing sequence to ensure that the number dials and connects properly:

Press	To
MENU > 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).
MENU > 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).

PRELIMINARY

Press	To
MENU > 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

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 63).

Note: You cannot record a voice name for an entry stored on the SIM card.

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

Find the Feature MENU > More > Phonebook

Do This		To
1	Press NAV	scroll to the entry
2	Press VIEW (OK)	view entry details
3	Press EDIT (OK)	edit the entry
4	Press NAV	scroll to Voice Name
5	Press RECORD (OK)	begin recording

PRELIMINARY

Do This		To
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

PRELIMINARY

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 41. To call an entry with 1-touch dial, see page 41.

Editing a Phonebook Entry

Find the Feature MENU > More > Phonebook

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

Edit the entry information described on pages 58-59.

Tip: Press MENU to open the Phonebook Menu to perform various operations on the selected entry.

PRELIMINARY

Personalizing Your Phone

Setting a Ring Style

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 25).

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

Find the Feature > More > Ring Styles > Style

Press	To
1	scroll to the ring style
2 SELECT	select the ring style

PRELIMINARY

Personalizing a Ring Style

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 MENU > More > Ring Styles > *Style* Detail

Note: *Style* represents the current ring style.

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

Other Personalization Features

Note: See the reference guide for more information about using these features.

Feature	Description
Ringer IDs	Activate distinctive ringer alerts for phonebook entries (see page 59): MENU > More > Ring Styles > *Style* Detail > Ringer IDs
Ring Volume	Adjust ringer volume: MENU > More > Ring Styles > *Style* Detail > Ring Volume

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Feature	Description
Keypad Volume	Adjust keypad keypress volume: MENU > More > Ring Styles > *Style* Detail > Key Volume
Reminders	Set reminder alerts for voicemail, text, email, or chat messages you receive: MENU > More > Ring Styles > *Style* Detail > Reminders
My Tones	Create custom alert tones: MENU > Media Center > My Tones
Wallpaper	Set a wallpaper image for the idle display: MENU Settings > Personalize > Wallpaper
Screen Saver	Set a screen saver image: MENU Settings > Personalize > Screen Saver
Color Style	Set the display color palette: MENU Settings > Personalize > Color Style
Greeting	Change the greeting that appears when you turn on your phone: MENU > Settings > Personalize > Greeting Network / Subscription Dependent Feature
Banner Graphic	Change the banner graphic in the idle display: MENU > Settings > Personalize > Banner Graphic Network / Subscription Dependent Feature

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Feature	Description
Answer Options	Set ways to answer incoming calls: ☰ > Settings > In-Call Setup > Answer Options
Main Menu	Reorder your phone's main menu: ☰ > Settings > Personalize > Main Menu
Soft Keys & Menu Icons	Change soft key labels and menu feature icons in the idle display: ☰ > Settings > Personalize > Home Keys
Shortcuts	Create a shortcut to a menu item: Highlight the menu item, then press and hold ☰ Select a shortcut: ☰ > Shortcuts > *shortcut name*

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Getting More Out Of Your Phone

Note: See the reference guide for more information about using the features described in this chapter.

Dialing Features

Feature	Description
Fixed Dial	Turn fixed dialing on or off: > Settings > Security > Fixed Dial Use the fixed dial list: > More > Services > Fixed Dial
Service Dial	Dial service phone numbers: > More > Services > Service Dial
Quick Dial	Dial pre-programmed phone numbers: > More > Services > Quick Dial
DTMF Tones	Activate DTMF tones: > Settings > Initial Setup > DTMF Send DTMF tones during a call: > Dialing Menu > Send Tones

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Hands-Free Features

Feature	Description
Speaker-phone	Activate a connected external speakerphone during a call: Press SPEAKER (⊙) (if available) or ☰ > Spkrphone On
Auto Answer (car kit or headset)	Automatically answer calls when connected to a car kit or headset: ☰ > Settings > Car Settings or Headset > Auto Answer
Auto Hands-Free (car kit)	Automatically route calls to a car kit when connected: ☰ > Settings > Car Settings > Auto Handsfree
Power-Off Delay (car kit)	Set the phone to stay on for a period of time after the ignition is switched off: ☰ > Settings > Car Settings > Power-Off Delay
Charger Time (car kit)	Charge the phone for a period of time after the ignition is switched off: ☰ > Settings > Car Settings > Charger Time

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Data and Fax Call Features

Feature	Description
Send Data or Fax	Connect your phone to the device, then place the call through the device application
Receive Data or Fax	Connect your phone to the device, then answer the call through the device application
Talk Then Fax	Connect your phone to the device, enter the number, press MENU > Dialing Menu > Talk Then Fax, then press SEND to make the call

Call Monitoring Features

Feature	Description
Call Times	View call timers: MENU > More > Recent Calls > Call Times
In-Call Timer	Display time or cost information during a call: MENU > Settings > In-Call Setup > In-Call Timer
Call Cost	View call cost trackers: MENU > More > Recent Calls > Call Cost

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Feature	Description
Credit Info (prepay option)	View credit information: > Settings > Phone Status > Credit Info
Credit Available (advice of charge option)	View credit available: > Settings > Phone Status > Credit Available
Call Cost Setup	Set a credit limit: > Settings > In-Call Setup > Call Cost Setup
Data Times	View data call timers: > More > Recent Calls > Data Times
Data Volumes	View data volume meters: > More > Recent Calls > Data Volumes

Network Features

Feature	Description
Network Settings	View network information and adjust network settings: > Settings > Network

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Security

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 39.

Lock Your Phone Manually

Find the Feature MENU > Settings > Security > Phone Lock > Lock Now

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

Unlock Your Phone

Tip: Your phone's unlock code is originally set to 1234 at the factory. Many service providers reset the unlock code to the last four digits of your phone number.

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At the Enter Unlock Code prompt:

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

Changing a Code, PIN, or Password

Your phone's four-digit unlock code is originally set to 1234, and the six-digit security code is originally set to 000000 at the factory. 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.

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You can also reset your SIM card PIN code, PIN2 code, and/or call barring password if necessary.

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, PIN, or Password

If you forget your security code, SIM card PIN code, PIN2 code, or call barring password, 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

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Press		To
2	keypad keys	enter your security code
3	OK (⊙)	submit your security code

Other Security Features

Note: See the reference guide for more information about using these features.

Feature	Description
SIM PIN	Lock or unlock the SIM card: ☰ > Settings > Security > SIM PIN **Caution:** If you enter an incorrect PIN code three times in a row, your SIM card is disabled and your phone displays SIM Blocked.
Lock Application	Lock phone applications: ☰ > Settings > Security > Lock Application

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Personal Organizer Features

Note: See the reference guide for more information about using the features described in this chapter.

Datebook

The datebook is a calendar that lets you schedule and organize events such as appointments and meetings.

Note: You must set the correct time and date on your phone to use the datebook. See page 36.

Feature	Description
Add Event	Add an event to the datebook: ☰ > More > Datebook > *day* ☰ > New
View Event	View or edit event details: ☰ > More > Datebook > *day* > *event name*
Event Reminder	View event reminder: VIEW (⊙) Dismiss event reminder EXIT (⊙)

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Alarm Clock

Feature	Description
Set Alarm	Set the alarm clock (from the datebook week view or day view): MENU > More > Datebook MENU > Alarm Clock
Turn Off Alarm	Turn off alarm: Press EXIT (⊡) or PWR Set 8-minute delay: Press DELAY (⊡)

Voice Notes

Record personal messages and phone calls on your phone.

Feature	Description
Record	Record a voice note: Press and hold voice key, speak voice note, release voice key
Play	Play back a recorded voice note: MENU > Voice Notes > *voice note*

Calculator

Feature	Description
Calculator	Calculate numbers: MENU > Calculator

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Feature	Description
Currency Converter	Convert currency: Ⓜ > Calculator Ⓜ > Exchange Rate Enter exchange rate, press OK (⊙), enter amount, select $ function

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News and Entertainment

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.

Start a Micro-Browser Session

Find the Feature MENU > Web Access > Browser

Press	To
1 ⊕	scroll to a bookmark, service, or application
2 SELECT (⊡)	select the item

Interact With Web Pages

Press	To
⊕	scroll through text, or highlight a selectable item
SELECT (⊡)	select the highlighted item

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Press	To
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

Other Micro-Browser Features

Note: See the reference guide for more information about using these features.

Feature	Description
Download Picture or Sound	Download a picture, animation, or sound file from a Web page: highlight the file, press SELECT (⊙), press STORE (⊙)
Web Sessions	Select or create a Web session: ☰ > Web Sessions

Games and Applications

Your phone contains several Java games that you can play between calls. Each game includes online playing instructions.

Your phone may contain additional Java applications that add features and functionality to your phone. Java games and applications are stored in the Games & Apps folder on your phone.

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You can download Java games and applications for your phone from the Motorola Web site at:

`http://www.hellomoto.com`

Check the **Web Sessions** folder on your phone for additional Web sites with downloadable Java applications.

Note: See the reference guide for more information about using these features.

Feature	Description
Launch Application	Launch a Java application: > **Games & Apps**, highlight the application, press **SELECT** ()
Download Application	Download a Java application: > **Web Access** > **Browser**, highlight the application, press **SELECT** (), press **DWNLOAD** ()

Other Entertainment Features

Note: See the reference guide for more information about using these features.

Feature	Description
Picture Viewer	Manage pictures and animations: > **Media Center** > **Picture Viewer**

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Feature	Description
Radio	Use the optional Motorola Original™ FM Stereo Radio Headset accessory: Press RADIO (⊙)

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Specific Absorption Rate Data

The selected product Motorola T720 GSM wireless phone meets the government's requirements for exposure to radio waves.

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

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

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

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tested for use at the ear is ____ W/kg, and when worn on the body, as described in this user guide, is ____ 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.

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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—

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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

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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, neuroepithelliomatous 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

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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

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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

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- 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

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- 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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1. Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium;1999 June 20; Long Beach, California.

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.

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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.

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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.

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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

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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 OF IMPLIED. IN NO EVENT SHALL MOTOROLA BE LIABLE, WHETHER IN CONTRACT OR TORT

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Product Registration

Online Product Registration:

`http://www.motorola.com/warranty`

Product registration is an important step toward enjoying your new Motorola phone. Registering helps us facilitate warranty service, and permits us to contact you should your phone 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.

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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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U.S. patent Re. 34,976

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.

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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.

PRELIMINARY

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.*

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* 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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For more information, please call 1-888-901-SAFE or visit the CTIA Web site at www.wow-com.com™

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