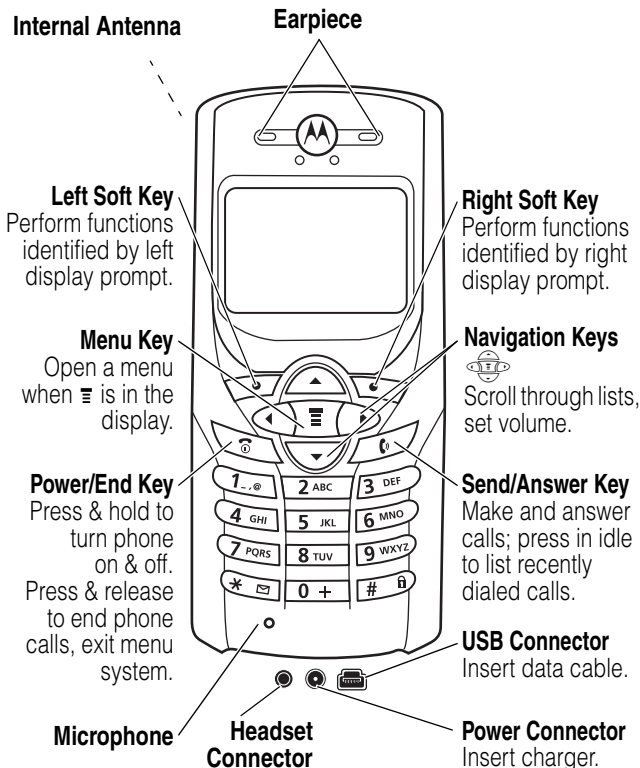


# Welcome

---



You can change covers and keypads on your C350 Series phone (see page 19). Your phone may not appear exactly as the phone image above.

Note that all key locations, sequences, and functions remain the same with any of the covers.

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](http://www.motorola.com) (United States)

[www.motorola.ca](http://www.motorola.ca) (Canada)

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Manual number: 6809464A30-O






Cover number: 8988485L61-O

# Menu Map

## Main Menu

-  **Voice Dial**
-  **Recent Calls**
  - Received Calls
  - Dialed Calls
  - Notepad
  - Call Times
  - Call Cost
  - Data Times
  - Data Volumes
-  **Chat \***
-  **Media Center**
  - Theme
  - My Tones
  - MotoMixer
  - Picture Viewer
-  **Ring Styles**
  - Alert
  - *alert* Detail
  - My Tones
-  **Games**
-  **Browser \***
-  **AIM \***
-  **Office Tools**
  - Datebook
  - Calculator
-  **Settings**
  - (see next page)

## More

-  **Phonebook**
-  **MyMenu**
-  **Messages \***
  - Create Message
  - Voicemail
  - Text Msgs
  - Browser Msgs
  - Info Services
  - Quick Notes
  - Outbox
  - Drafts
-  **SIM Applications \***
-  **Fixed Dial**

**Note:** Select **More** when it appears in the menu to see additional menu items.

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.

\* optional network, SIM card, or subscription-dependent features

# Settings Menu

## Call Forward \*

- Voice Calls
- Fax Calls
- Data Calls
- Cancel All
- Forward Status

## Phone Status

- My Tel. Numbers \*
- Battery Meter
- Other Information

## In-Call Setup

- In-Call Timer
- Call Cost Setup \*
- My Caller ID
- Talk and Fax \*
- Answer Options
- Call Waiting \*

## Security

- Phone Lock
- Lock Keypad
- Lock Application
- Fixed Dial
- Call Barring \*
- SIM PIN
- New Passwords

## Other Settings

- Personalize
  - Main Menu
  - Keys
  - Color Style
  - Greeting \*
  - Wallpaper
  - Screen Saver
- Initial Setup
  - Time and Date
  - 1-Touch Dial
  - Backlight
  - Zoom
  - TTY Setup
  - Scroll
  - Animation
  - Language
  - Battery Save
  - Contrast
  - DTMF
  - Master Reset
  - Master Clear
- Network
  - New Network
  - Network Setup
  - Available Networks
  - My Network List
  - Service Tone
  - Call Drop Tone
- Car Settings
- Headset

## Shortcuts



**Open Phonebook:**

Press  ▲ or ▼ in idle



**Set Ring Volume:**

Press  ◀ or ▶ in idle

**Display My Number:**

Press   in idle

**Change Display Zoom:**

Press , then hold 

**Lock Keypad:**

Press  

**Note:** 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.

\* optional network, SIM card, or subscription-dependent features

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---

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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 in user guides published prior to December 1, 2002.

## ***Exposure To Radio Frequency (RF) Energy***

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

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

## ***Operational Precautions***

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

### ***External Antenna Care***

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

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

## ***Phone Operation***

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

## ***Body-Worn Operation***

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

## ***Data Operation***

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

## ***Approved Accessories***

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

## ***RF Energy Interference/Compatibility***

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

## ***Facilities***

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



## ***Aircraft***

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

## ***Medical Devices***

### **Pacemakers**

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

Persons with pacemakers should:

- ALWAYS keep the phone more than 6 inches (15 centimeters) from your pacemaker when the phone is turned ON.
- NOT carry the phone in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn OFF the phone immediately if you have any reason to suspect that interference is taking place.

### **Hearing Aids**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

### **Other Medical Devices**

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

## ***Use While Driving***

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

When using your phone while driving, please:

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

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

[www.Motorola.com/callsmart](http://www.Motorola.com/callsmart).

## ***Operational Warnings***

### ***For Vehicles With an Air Bag***

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

### ***Potentially Explosive Atmospheres***

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

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





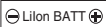
## ***Blasting Caps and Areas***

To avoid possible interference with blasting operations, turn OFF your phone when you are near electrical blasting caps, in a blasting area, or in areas posted “Turn off electronic devices.” Obey all signs and instructions.

## ***Batteries***

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

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

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

## ***Seizures/Blackouts***

Some people may be susceptible to epileptic seizures or blackouts when exposed to blinking lights, such as when watching television or playing video games. These seizures or blackouts may occur even if a person never had a previous seizure or blackout.

If you have experienced seizures or blackouts, or if you have a family history of such occurrences, please consult with your doctor before playing video games on your phone or enabling a blinking-lights feature on your phone. (The blinking-light feature is not available on all products.)

Parents should monitor their children's use of video game or other features that incorporate blinking lights on the phones. All persons should discontinue use and consult a doctor if any of the following symptoms occur: convulsion, eye or muscle twitching, loss of awareness, involuntary movements, or disorientation.

To limit the likelihood of such symptoms, please take the following safety precautions:

- Do not play or use a blinking-lights feature if you are tired or need sleep.
- Take a minimum of a 15-minute break hourly.
- Play in a room in which all lights are on.
- Play at the farthest distance possible from the screen.

## ***Repetitive Motion Injuries***

When you play games on your phone, you may experience occasional discomfort in your hands, arms, shoulders, neck, or other parts of your body. Follow these instructions to avoid problems such as tendonitis, carpal tunnel syndrome, or other musculoskeletal disorders:

- Take a minimum 15-minute break every hour of game playing.
- If your hands, wrists, or arms become tired or sore while playing, stop and rest for several hours before playing again.
- If you continue to have sore hands, wrists, or arms during or after play, stop playing and see a doctor.

# Getting Started

---



## What's in the Box?

Your digital wireless phone typically comes 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 describes how to use your Motorola wireless phone.

**Note:** A reference guide for your phone is also available that describes your phone's features in more detail.

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.

## 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 Battery

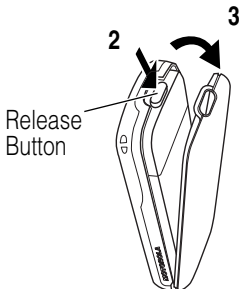
You must install and charge the battery to use your phone.



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.

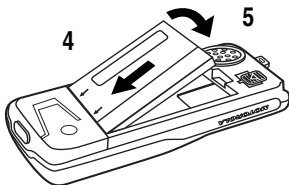
### Action

- 1 Remove the battery from its protective clear plastic case, if necessary.
- 2 Press down on the cover release button at the top of your phone.
- 3 Pull the top of the phone's back cover to release it.



## Action

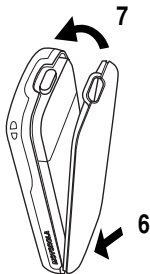
- 4 Insert the battery with printed arrows and 2 tabs at the top of the battery compartment.



- 5 Push down until the battery is inserted at the bottom.

- 6 Insert the bottom of the back cover.

- 7 Press the top of the back cover down until it hooks over the cover release button.



## Charging the Battery

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

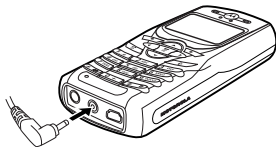
**Caution:** If the battery is fully discharged, your phone may not display **Charging** for up to 1 minute after inserting the

charger. **Do not** attempt to force the charger further in if you do not see an immediate response.



### Action

- 1 Plug the travel charger into the middle jack on the bottom of your phone.



- 2 Plug the other end of the travel charger into the appropriate electrical outlet.
- 3 When your phone indicates **Charge Complete**, remove the travel charger.

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. See the battery level indicator in the list on page 27.

## Battery Use

**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 a long time may require a longer initial charge time.





- Maintain the battery at or near room temperature when charging.
- Do not expose batteries to temperatures below - 10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your vehicle.
- When you do not intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- Over 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.



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

## ***Changing Your SIM Card***

Your SIM (Subscriber Identity Module) card contains your phone number, service details, and phonebook/message memory. It must be installed in the base of the phone, and must be a **3-volt** SIM card. If you have problems with your SIM card, contact your service provider.

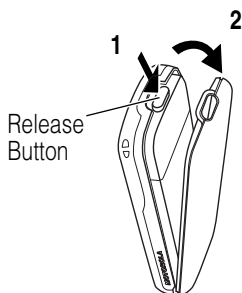
Since you can change covers and keypads on your phone, it may not appear exactly as the phone pictured. All key locations, sequences, and functions remain the same with any of the covers.

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

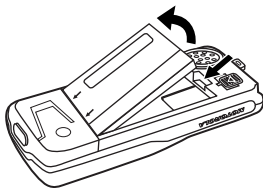


### Action

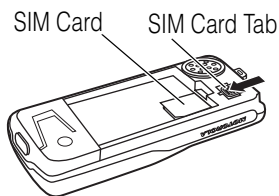
- 1 Press down on the cover release button at the top of your phone.
- 2 Pull the top of the phone's back cover to remove it.



- 3 Lift out the battery.

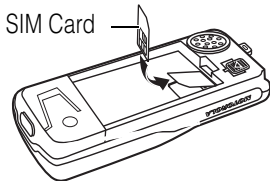


- 4 Slide the plastic SIM card tab forward to unlock the SIM card.
- 5 Lift out the old SIM card, if necessary.

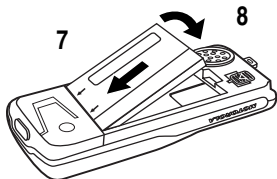


## Action

- 6** Slide the new SIM card in the holder with the cut corner on the upper left and the gold plate facing down.



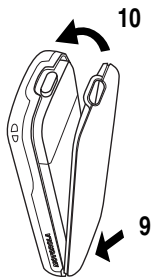
- 7** Insert the battery with printed arrows and 2 tabs at the top of the battery compartment.



- 8** Push down until the battery inserts at the bottom.

- 9** Insert the bottom of the back cover.

- 10** Press the top of the back cover down until it hooks over the cover release button.



## Changing Your Phone's Cover



Always use Motorola Original™ covers. The phone warranty does not cover damage caused from using non-Motorola accessories.

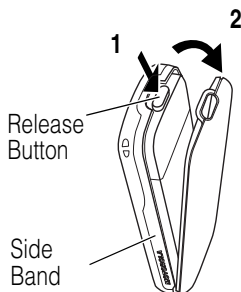
Your phone uses a convertible cover, keypad, and (in some cases) side band that you can replace to completely change its appearance.



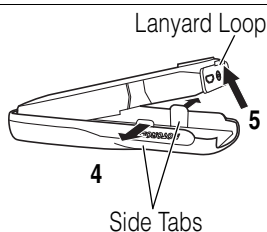
## ***Removing a Cover and Keypad***

### **Action**

- 1 Press down on the cover release button at the top of your phone.
- 2 Pull the top of the phone's back cover to remove it.
- 3 If your cover has a removable side band, remove it now.



- 4 Pull the side tabs away from the phone.
- 5 Lift up on the lanyard loop to pull the phone out of the front cover.

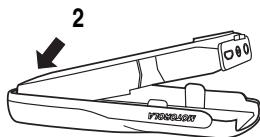


## ***Installing a Cover and Keypad***

Always use the keypad and side band (if applicable) that match the new cover.

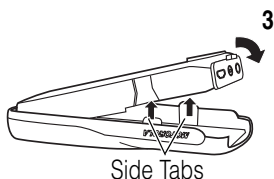
## Action

- 1 If your phone has an end cap, install it before attaching the front cover.



- 2 Slide the top of the phone into the top of the new front cover.

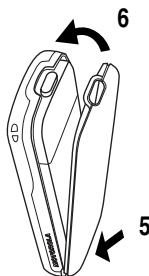
- 3 Press the bottom of the phone into the front cover until the side tabs snap into place.



- 4 If your cover has a removable side band, attach it now.

- 5 Insert the bottom of the back cover.

- 6 Press the top of the back cover down until it hooks over the cover release button.



## Resetting Your Phone

If your phone freezes on a display, error message, or power up, reset it as follows:



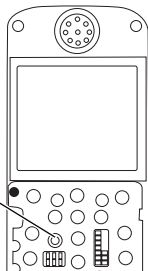
### Action

- 1 Remove your phone's back and front covers as described in "Changing Your Phone's Cover" on page 19.

- 2 Use a small object to press the Reset button on the front of your phone.

Your phone display should restore.


Reset Button



- 3 Replace your phone's cover.

## Turning Your Phone On

### Action


- 1 Press and hold  (End/Power key).

End/Power Key






## Action


- 2 If necessary, enter your SIM card PIN code and press **OK** (  ) to unlock your SIM card.

**Note:** If you enter an incorrect PIN code 3 times in a row, your SIM card is disabled and your phone displays the message **SIM Blocked**.



- 3 If necessary, enter your 4-digit unlock code and press **OK** (  ) to unlock your phone.

**Note:** The unlock code is originally set to 1234.  
(For more information, see page 40.)

## Adjusting the Volume

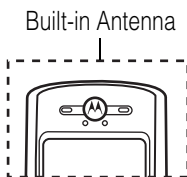
You can adjust your phone's earpiece and ring tone volume by pressing right and left on the :

| When                | You Can Adjust          |
|---------------------|-------------------------|
| you are in a call   | earpiece speaker volume |
| the display is idle | ring tone volume        |





**Tip:** At the lowest ring tone volume setting, press  left once to switch to vibrate alert. Press it again to switch to silent alert. Press  right to cycle back to vibrate alert, then ring alert.

## Making a Call

A built-in antenna is in the top of your phone. Do not block it while you are on a call.








| Press   | To   |
|---|--|
| 1 keypad keys   | dial the phone number  |
|   | <b>Tip:</b> If you make a mistake, press <b>DELETE</b> (  ) to delete the last digit, or press and hold <b>DELETE</b> (  ) to delete all digits. |
| 2  | make the call  |
| 3  | end the call and “hang up” the phone   |



## Answering a Call

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

| Action   |
|--|
| 1 Press  or <b>ANSWER</b> (  ) |
| 2 Press  (end key) when the call is done.   |

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

## Viewing Your Phone Number

To view your phone number from the idle display, press  .

While you are on a call, press  > **My Tel. Numbers**.



**Note:** You must store your phone number on your SIM card to use this feature. To store your phone number on the SIM card, see page 44. If you do not know your phone number, contact your service provider.



# Learning to Use Your Phone

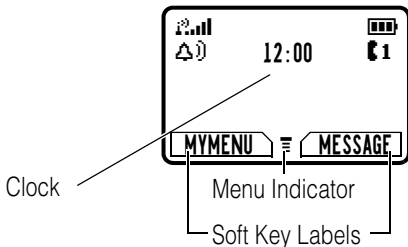
---



See page 1 for a basic phone diagram.



## Using the Display



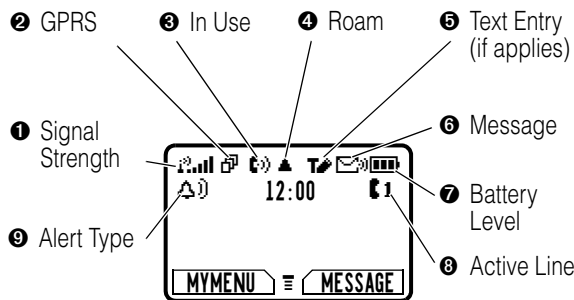
The *idle display* (shown below) is the standard display when you are not on a call or using the menu.



The  (menu) indicator at the bottom center of the display indicates you can press the menu key () to display the main menu to see more features.

Labels at the bottom corners of the display show the current soft-key functions. Press the left soft key () or right soft key () to perform the function indicated by the left or right soft key label.

The following status indicators can appear:



**1 Signal Strength Indicator** Indicates the strength of your phone's connection with the network.

Strong No signal

You cannot make or answer calls when the “no signal” indicator appears.



**2 GPRS Indicator** Indicates that your phone is using a high-speed GPRS network connection (). GPRS allows faster data transfer speeds.

The indicator does not mean that you are in a call; only that you are registered on the network with a GPRS connection. Other possible indicators:

GPRS PDP context active      GPRS packet data available

**3 In Use Indicator** Indicates when a call is in progress, and when you have a secure () or insecure () connection.





**4 Roam Indicator** Appears when your phone uses another network system outside your home network (▲). When you leave your home network area, your phone *roams* or seeks another network. Icons here can also indicate your text entry mode (such as alpha, numeric, or symbol)

**5 Text Entry Indicator** Indicates your text entry method when you are in a text editor (such as **Tap** or **iTap**). See page 32.



**6 Message Indicator** Indicates when you have an active Chat session (☞), or when you have a new voice (☎) or text (✉) message waiting.

**7 Battery Level Indicator** Shows the amount of charge left in your battery. The more bars visible, the greater the charge.

High



Low

Recharge your battery as soon as possible when you see the **Low Battery** warning message and hear the low battery alert.

**8 Active Line Indicator** Shows the currently active phone line.

**9 Alert Type Indicator** Shows the currently selected alert profile. The default alert profile is loud ring.

🔔 = loud ring

🔔 = soft ring

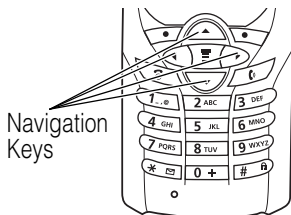
🔔 = vibrate

🔔 = vibrate and ring

🔔 = silent

# Using the 4-Way Navigation Keys

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



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



# Using Menus

From the idle display, press  to display the main menu.

## Left Soft Key

Perform functions identified by left display prompt.

## Right Soft Key

Perform functions identified by right display prompt.

## Menu Key

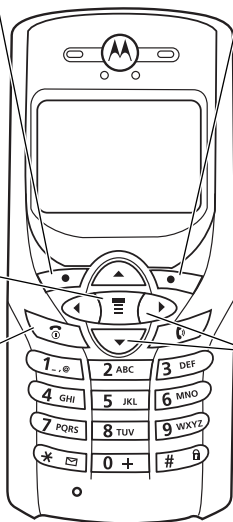
Enter menu system or open a sub-menu.

## Power/End Key

Press & hold to turn phone on & off.  
Press & release to end phone calls, exit menus.

## Navigation Keys

Scroll through menus & lists, set feature values.





## Selecting a Menu Feature

From the idle display, select a menu feature as follows:

### Find the Feature

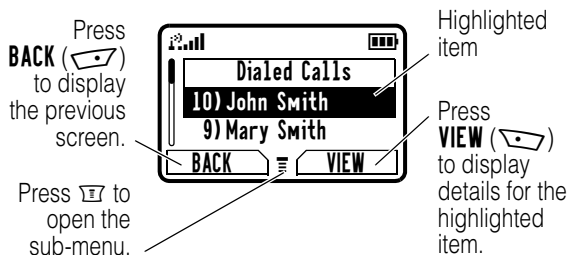
 > **Recent Calls**  
> **Dialed Calls**



This example shows that from the idle display, you must press , scroll to and select **Recent Calls**, then scroll to and select **Dialed Calls** to display the dialed calls list. Use

 to scroll, and the left/right soft keys to perform the functions in the bottom left and right corners of the display.

## Selecting a Feature Option

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



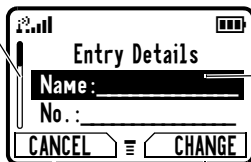
- Press  to scroll up or down to highlight an item.
- In a numbered list, press a number key to highlight the item.
- In an alphabetized list, press a key repeatedly to cycle through the letters on the key and highlight the closest matching list item.
- When an item has a list of possible values, press  to the left or right to scroll and select a value.
- When an item has a list of possible numeric values, press a number key to set the value.



# Entering Text

Some features require you to enter information:

Press  to scroll down to additional items.



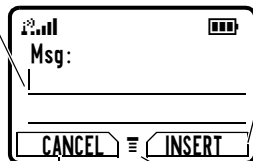
Highlighted item


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

Press **CHANGE** () or number keys to edit the information.


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

*Flashing cursor* indicates insertion point.



Press **INSERT** () to view and insert stored text or objects.

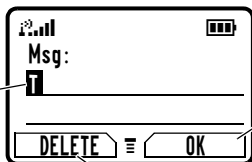
Press **CANCEL** () to exit without making changes.

Press  to open the sub-menu.




When you enter text using the standard tap method (see page 34), the flashing cursor changes to a *block cursor*, and the soft key functions change.

Block cursor indicates currently highlighted character.




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

After 2 seconds, the block cursor reverts to a flashing cursor and moves to the next position.

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

## Choosing a Text Entry Method

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

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


- |                   |  |
|-------------------|--|
| <b>iTAP</b>       | Let the phone predict each word as you enter it, then choose the word from a list (see page 35).   |
| <b>Tap Method</b> | Enter characters one at a time by pressing the key for the letter, number, or symbol (see page 34). This is the standard method for entering text. |
| <b>Numeric</b>    | Enter numbers only.  |
| <b>Symbol</b>     | Enter symbols only (see page 39).  |




**Note:** The text entry method you select remains active until you change it by selecting another method.

## Using the Tap Method



This is the standard entry method for entering text on your phone.


Press  > **Entry Method** from a text entry screen and select **Tap Method**.



| Press  | To  |
|--|---|
| 1 A number key one or more times   | select a letter, number, or symbol shown in the chart on page 35. |
| 2 Number keys  | enter the remaining characters                                    |
| 3 OK (  ) | store the text  |











### Tap Method Text Entry Rules

- Press a number key repeatedly to cycle through its characters. See the chart on page 35.
- If you do not press a key for 2 seconds, the character in the block cursor is accepted, and the cursor moves to the next position.
- Press  left or right to move the flashing cursor to the left or right in a text message.
- The first character of every sentence is capitalized. Press  down to force the character to lowercase while it is highlighted by the block cursor.

- Your phone may support multiple languages. The current language setting determines whether a new message begins on the left or right side of the display.
- If you enter or edit information and do not want to save your changes, press  to exit without saving.

## Character Chart

Use this chart as a guide for entering characters with the tap method.


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

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



## Using the iTAP™ Method




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



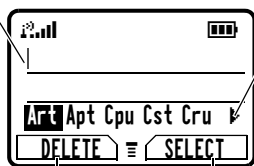
Press  > **Entry Method** from a text entry screen and select **iAP**.

## ***Entering Words***

|  | <b>Press</b>   | <b>To</b>  |
|--|--|--|
|  | <b>1</b> A number key<br>one time  | enter the first letter of the<br>word<br><br>The letters associated with<br>the key are shown at the<br>bottom of the display.   |
|  | <b>2</b> Number keys<br>(one per letter)   | enter the rest of the word<br><br>Alternative words and letter<br>combinations are shown at<br>the bottom of the display. The<br>word choices are updated<br>with each keypress. |
|  | <b>3</b>  right or left     | highlight the word you want  |
|  | <b>4</b> <b>SELECT</b> (  ) | enter the word at the flashing<br>cursor<br><br>A space is automatically<br>inserted after the word.   |

For example, to spell “art,” press   . The display shows:

Flashing cursor indicates insertion point.








Press  to scroll and see additional choices.

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

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

## Entering Novel Words

If iTAP does not display the word you want:

| Press   | To   |
|---|--|
| 1 <b>DELETE</b> (  ) one or more times   | delete letters until you see a letter combination that matches the start of the word |
| 2  left or right   | highlight the letter or letter combination   |
| 3 <b>SELECT</b> (  ) , then press  to the left | shift the text entry cursor to the left and “lock” the selected letters              |
| 4 Number keys and    | enter letters and highlight letter combinations to spell the word                    |







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


## ***Entering Punctuation***




| Press  | To   |
|--|--|
|  or  | enter punctuation or other characters (see the chart on page 35) |

## ***Using Capitalization***

The first word of a sentence is automatically capitalized, with the words that follow in lowercase.

| Press  | To   |
|--|--|
|  up or down | change the words to initial character capitalized, all uppercase characters, or all lowercase characters |



## Entering Numbers

| Action  | To   |
|---|--|
| 1 Enter the first digit and then highlight it   | put the iTAP software in number entry method |
| 2 Press number keys   | add digits to the number                     |
| 3 Press <b>SELECT</b> (  ) | enter the number                             |




## Deleting Letters and Words



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

| Action  | To                        |
|---|---------------------------|
| Press <b>DELETE</b> (  ) | delete 1 letter at a time |
| Hold <b>DELETE</b> (  )  | delete the entire message |

## Using Symbol Method











To enter symbol characters in a message, press  > **Entry Method** from any text entry screen and select **Symbol**.

| Press                   | To  |
|-------------------------|---|
| 1 A number key one time | display its symbol options at the bottom of the display.<br>See the chart on page 40. |

| Press   | To                            |
|---|-------------------------------|
| 2  left or right | highlight the symbol you want |
| or  |                               |
| the number key repeatedly   |                               |
| 3 SELECT (  )    | enter the symbol              |

## Symbol Chart

Use this chart as a guide for entering symbols in symbol method.

|   |  |
|---|--|
|    | space . ? ! , @ _ & ~ : ; " - ( ) ' ` ~ ¡ ¢ £ \$ ¥ ¤ € |
|    | @ _ \  |
|    | / : ;  |
|    | " & '  |
|    | () [] {}   |
|    | ¿ ¡ ~  |
|    | < > =  |
|    | \$ £ ¥ ¤ €   |
|   | # % *  |
|  | + - x * / = > < # §                                    |

## Locking and Unlocking Your Phone

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




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

You can make emergency calls on your phone even when it is locked. See page 52.

## ***Locking Your Phone Manually***


### **Find the Feature**

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

|   | <b>Press</b>   | <b>To</b>                      |
|---|--|--------------------------------|
| 1 | keypad keys  | enter your 4-digit unlock code |
| 2 | OK (  ) | lock the phone                 |

## ***Unlocking Your Phone***

At the **Enter Unlock Code** prompt:

|   | <b>Press</b>   | <b>To</b>   |
|---|--|---|
| 1 | keypad keys  | enter your 4-digit unlock code  |
|   |  | The unlock code is originally set to 1234. If necessary, see “If You Forget a Code or Password” on page 43. |
| 2 | OK (  ) | unlock your phone   |




## Setting 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 4-digit unlock code      |
| 2 OK (  ) | set the phone to lock automatically |

## Changing a Code or Password

Your phone's 4-digit unlock code is originally set to 1234, and the 6-digit security code is originally set to 000000. Your service provider may reset these numbers before you receive your phone.

If your service provider has *not* reset these numbers, we recommend that you change them to prevent others from accessing your personal information or modifying your phone settings. The unlock code must contain 4 digits, and the security code must contain 6 digits.

To change a code or password:



### Find the Feature

 > Settings > Security  
> New Passwords

## If You Forget a Code or Password



If you forget your security code (originally set to 000000), SIM PIN, SIM PIN2, or call barring password, contact your service provider.

If you forget your unlock code, try entering 1234 or the last 4 digits of your phone number. If that does not work, do the following when you see the **Enter Unlock Code** message:

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

## Locking and Unlocking the Keypad

You can lock the keypad to prevent accidental keypresses (for example, when carrying your phone in a purse or pocket).

| Press   | To                         |
|---|----------------------------|
|  *  | lock or unlock your keypad |

**Note:** Incoming calls unlock the keypad.



# Setting Up Your Phone

---

## Storing Your Name and Phone Number

To store or edit your name and phone number information on your SIM card:

### Find the Feature


-  > Settings
- > Phone Status
- > My Tel. Numbers

If you do not know your phone number, contact your service provider. To view your phone number from the idle display or during a call, see page 24.

## Setting the Time and Date

To use the datebook, you must set the time and date.






### Find the Feature

-  > Settings
- > Other Settings
- > Initial Setup
- > Time and Date

## Setting a Ring Style

Your phone rings or vibrates to notify you of an incoming call, message, or other event. This ring or vibration is called an *alert*.



You can select 1 of 5 alert profiles:

- |   |  |
|---|--|
|  Loud ring |  Soft ring        |
|  Vibrate   |  Vibrate and ring |
|  Silent    |  |

The alert indicator in your display shows the current alert type (see the indicators on page 27).

To set an alert:

**Find the Feature**  > Ring Styles > Alert


| Press  | To                          |
|--|-----------------------------|
| 1             | scroll to the alert profile |
| 2 SELECT (  ) | select the alert profile    |

Each alert profile contains settings for specific event alerts and ringer and keypad volume. To change these settings:

**Find the Feature**  > Ring Styles  
> alert Detail

## Setting Answer Options

You can use different methods to answer an incoming call.

**Find the Feature**  > Settings  
> In-Call Setup  
> Answer Options

The **Answer Options** menu includes:

**Multi-Key** answer by pressing any key




## Setting a Wallpaper Image


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

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

### Find the Feature

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

| Setting | Description   |
|---------|---|
| Picture | select the picture or animation for the background image in your idle display |
| Layout  | select <b>Center</b> or <b>Tile</b>   |


**Tip:** While viewing an image in **Picture Viewer**, you can press  > **Set as Wallpaper**.

## Selecting a Screen Saver

You can set a picture or an animation as a screen saver image. The image displays when the phone detects no activity for a specified time.

The screen saver image is shrunk to fill the display, if necessary. An animation repeats for 1 minute, then the first frame of the animation displays.

### Find the Feature

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

| Setting        | Description   |
|----------------|---|
| <b>Picture</b> | select the picture that appears when your phone is idle                         |
| <b>Delay</b>   | select how long your phone must be idle before the screen saver picture appears |

**Tip:** While viewing an image in **Picture Viewer**, you can press  > **Set as Screen Saver**.


## Assigning Phone Themes

A theme is a group of settings for your phone's screensaver, wallpaper, ring tone, and other personal preferences. When you select a theme for your phone, the theme instantly applies all of its settings to your phone.

To download a theme, see page 56. When you receive the theme, you can instantly apply its settings when your phone prompts you to **Apply Now?** Your phone saves the downloaded files so that you can always apply them as individual items.

### Find the Feature

 > **Media Center**  
> **Theme**

| Press   | To                           |
|---|------------------------------|
| 1  | scroll to the theme you want |



| Press         | To  |
|---------------|---|
| 2 SELECT (◁▷) | apply the theme   |
| or            |   |
| ⏏             | open the theme menu to<br><b>Delete</b> or <b>Rename</b> themes |

## Notes:

- Phone settings that are set by the theme appear with the value **(Set by theme)**. Changing any 1 of the values set by the theme resets the **Theme** selection to **Custom**, though the theme's settings all remain except for the 1 you changed.
- When you manually set the theme to **(None)**, all fields affected by the theme still use the current setting, with a value of **(Set by theme)**.
- You can download, use, and delete themes, but you cannot edit them. Downloaded themes may arrive in MTF files, compressed with files that they reference.

## Setting Your Display Color

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


### Find the Feature

⏏ > **Settings**  
 > **Other Settings**  
 > **Personalize**  
 > **Color Style**



# Setting Display Contrast


## Find the Feature

-  > Settings
- > Other Settings
- > Initial Setup
- > Contrast



# Adjusting the Backlight

You can set the amount of time that the display backlight remains on, or turn off the backlight to conserve battery power:

## Find the Feature

-  > Settings
- > Other Settings
- > Initial Setup
- > Backlight

# Zooming In and Out

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

You can also zoom in and out from the menu:

## Find the Feature

-  > Settings
- > Other Settings
- > Initial Setup > Zoom




# Personalizing Display Text




To change the text displayed when you turn on your phone:

## Find the Feature


-  > Settings
- > Other Settings
- > Personalize
- > Greeting





# Personalizing the Menu

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



**Note:** You cannot alter the location of the **More**  graphic icon. This icon remains in the introductory menu display to provide access to additional menu features.

## Find the Feature

-  > Settings
- > Other Settings
- > Personalize
- > Main Menu





| Press   | To  |
|---|---|
| 1                    | scroll to a menu item                       |
| 2 <b>GRAB</b> (  )   | grab the menu item                          |
| 3                    | move the item to a new location in the menu |
| 4 <b>INSERT</b> (  ) | insert the menu item                        |

# Personalizing Soft Keys

You can relabel the soft keys (left  and right ) to access different main menu items from the idle display.

## Find the Feature

 > Settings  
> Other Settings  
> Personalize > Keys


| Press  | To                       |
|--|--------------------------|
| 1             | scroll to Left or Right  |
| 2 CHANGE (  ) | select the key           |
| 3             | scroll to a menu feature |
| 4 SELECT (  ) | confirm the menu feature |

# Conserving Battery Power



Some networks and phones include a battery save setting to conserve battery power.

## Find the Feature

 > Settings  
> Other Settings  
> Initial Setup  
> Battery Save






# Calling Features

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

## Redialing a Number


From the idle display:

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

## Calling an Emergency Number

Your service provider programs 1 or more emergency phone numbers (such as 112 or 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 emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.

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

# 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.


## Storing Your Voicemail Number

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

### Find the Feature


 > Messages

 > VoiceMail Setup

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

**Note:** You cannot store **Pause**, **Wait**, or **n** characters in this number. If you want to store your voicemail number with these characters, create a phonebook entry for it. Then, you can use the entry to call your voicemail. For more about these characters, see page 78.

## Receiving a New Voicemail Message

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



Some networks only indicate when you have messages, whether they are new or not.

| Press    | To                    |
|----------|-----------------------|
| CALL (📞) | listen to the message |

## ***Listening to a Voicemail Message***

**Find the Feature**      📞 > Messages > VoiceMail

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





# News and Entertainment

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## Using the 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.

**Note:** Your phone may use a high-speed GPRS (General Packet Radio Service) network connection. This type of connection can be identified by a  GPRS indicator in the idle display that disappears when you start a micro-browser session. If a  (connected call) indicator appears when you start a micro-browser session, your phone is using a standard voice channel connection. Your network connection charges may vary depending on the type of connection used.

## Starting a Micro-Browser Session

### Find the Feature




 > Browser

| Press  | To   |
|--|--|
| 1         | scroll to a bookmark, service, or application on your homepage |
| 2 SELECT  | select the item  |



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

## ***Interacting With Web Pages***

| <b>Press</b>  | <b>To</b>   |
|---|---|
|  up or down    | scroll through a page                                   |
|  left or right | go back to the previous page or forward to the next one |
|                | open the <b>Browser Menu</b>                            |

## ***Downloading Pictures and Sounds***

You can download a picture, animation, sound, or theme from a Web page by selecting its link. A picture or animation appears when downloading completes. A sound plays when downloading completes.

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

To download files with the browser on a desktop computer or your phone:

### **Downloading a File Using a Web Browser**

- 1 In the browser, go to the Web site and find the file you want.
- 2 Follow the directions on the site to purchase the file (payment details vary). The site sends a text message to your phone, containing the attached file or a URL link to the file.
- 3 Open the message and store the file.





## Notes:

- Call charges apply during download sessions.
- When your phone runs out of memory for downloaded files, new files overwrite the old ones. Downloaded files share your phone's memory, so you can make room for a picture, for example, by deleting ring tones.

## **AOL® Instant Messenger™**



AOL Instant Messenger (AIM®) lets you exchange short messages with people who have signed on, either from their phones or PCs.

### ***Getting an AIM Screen Name***


You need a screen name to sign on to AIM. To set up a screen name, see <http://www.aol.ca/aim>.


**Tip:** If you have a screen name from the following, you can use it with AIM: AOL, CompuServe2000, My News, AOL Hometown, or Personal Finance Channel on AOL.com.

### ***Finding Other People Online***




To find out who else is online, sign on and check your **Buddy List®**:

#### **Find the Feature**







 > AIM > Sign On

| Press  | To                             |
|--|--------------------------------|
| 1 keypad keys  | enter your <b>Screen Name</b>  |
| 2 OK (  ) | submit your <b>Screen Name</b> |




| Press  | To  |
|--|---|
| <b>3</b> keypad keys   | enter your <b>Password</b><br>(case-sensitive)  |
| <b>4</b> <b>OK</b> (  )     | submit your <b>Password</b>   |
|  | <b>Tip:</b> To sign on automatically next time, scroll to <b>Settings &gt; Auto Sign On</b> after you submit your password. |
| <b>5</b>                    | scroll to <b>Buddy List</b>   |
| <b>6</b> <b>SELECT</b> (  ) | view the <b>Buddy List</b>  |

Your **Buddy List** is sorted by online status:

- **Conversations** appear first. These are online **AIM** users having active conversations with you.  
Press **VIEW** () to open your conversation with them.
- **Online Buddies** are signed on to **AIM**. An icon indicates if one is away  (see page 61).  
Press **SEND IM** () to send them a message.
- **Offline Buddies** are signed off of **AIM**. An icon indicates if you declined messages from one  (see page 61) or set an alert for one  (see page 61).  
You can press **SEND IM** () to send a message, in case one signed on since you refreshed your list.

**Note:** To refresh your **Buddy List**, press






 > **Refresh List** while viewing it. To add names to your list, see “Adding and Removing Buddies” on page 61.




## ***Sending and Receiving Instant Messages***

After you open your **Buddy List** to find people online, you can exchange messages.








**Note:** To open your **Buddy List**, see “Finding Other People Online” on page 57.

| <b>Press</b> |  | <b>To</b>  |
|--------------|--|--|
| 1            |                     | scroll to a name in your <b>Buddy List</b>   |
| 2            | <b>SEND IM</b> (  ) | start a conversation with the person and open a text-entry display   |
| or           |  |  |
|              | <b>VIEW</b> (  )    | open a conversation in progress. Press <b>WRITE</b> (  ) to enter new text. |
| 3            | keypad keys  | enter message text (see page 32).  |
| 4            | <b>SEND</b> (  )    | send the text  |


Your phone displays the conversation history, where you can see the text you sent and the person's replies as they arrive. In the conversation display, you can:

| <b>Press</b>   | <b>To</b>                |
|--|--------------------------|
| <b>WRITE</b> (  ) | enter and send more text |



| Press   | To   |
|---|--|
| BACK (  )                  | return to the <b>Buddy List</b> , where you can open more conversations<br><br><b>Note:</b> You can have up to 5 open conversations.   |
|                            | return to the idle display, without signing off of <b>AIM</b> or closing the conversation<br><br><b>Note:</b> Your phone displays  <b>New IM</b> if you receive a message while idle or in another application. |
|  > <b>Get Buddy Info</b>   | display the screen name and online status of the Buddy in this conversation  |
|  > <b>Add Buddy</b>        | add the screen name to your <b>Buddy List</b>  |
|  > <b>End Conversation</b> | end the conversation   |
|  > <b>Decline IMs</b>      | block messages from the screen name for the current session  |

**Note:** If you sign off of **AIM**, you can still view the conversation text by pressing


 > **AIM > Offline Convs.** from idle. Turning off your phone erases conversations.





## ***Setting Up AOL Instant Messenger***


### ***Adding and Removing Buddies***

Your **Buddy List** can contain 30 names.


To add a name, open your **Buddy List** or a conversation (see “Finding Other People Online” on page 57) and press  > **Add Buddy**.

If you are not in a conversation, enter the new screen name and press **OK** (). **AIM** returns an error if it cannot verify the name on the server.


To remove a name from your **Buddy List**, select it and press  > **Remove Buddy**.

**Tip:** To send a message to someone not on your **Buddy List**, open your list and press  > **Send IM To...**


### ***Declining Buddies***

To decline messages from someone on your **Buddy List**, select the name and press  > **Decline IMs**. This setting remains until you sign off of **AIM**.


### ***Setting an Alert for Offline Buddies***

For **AIM** to notify you when someone signs on, select the name in your **Buddy List** and press  > **Alert Me**.

### ***Setting Your Away Message***

If you are signed on to **AIM** but not responding to new messages, you can set the “away” icon () to appear next to your name in everyone else's **Buddy List**. From the **AIM Online** menu, select **Away Message** > **On** or **Off**.



**Note:** The AIM Online menu appears when you sign on, or if you press **BACK** () from your **Buddy List**.

## Setting Your AIM Alert

AIM plays an alert when new messages arrive, or when you set alerts for your Buddies.

To turn off the **AIM** alert, select **Settings > Set Sounds** from the AIM Online menu.

## Changing Your Password

To change the password for your sign-on name, select **Settings > Change Password** from the AIM Online menu.

## Signing Off of AIM

To sign off, select **Sign Off** from the AIM Online menu.



## Picture Viewer

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




To download pictures or animations, see page 56. Your phone may also include predefined images. You cannot rename, delete, or view details about predefined images.

### Find the Feature

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

|   | Press   | To                    |
|---|---|-----------------------|
| 1 |                    | scroll to the picture |
| 2 | <b>SELECT</b> (  ) | view the picture      |



| Press  | To   |
|--|--|
| 3  up or down | view the previous/next picture   |
| or   |  |
| DETAILS (  )  | view picture information   |
| or   |  |
|               | open the <b>Picture Viewer</b> menu to perform other procedures as described in the following list |

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

| Option                     | Description   |
|----------------------------|---|
| <b>Details</b>             | View picture information.                           |
| <b>Set as Wallpaper</b>    | Set the picture as your phone's wallpaper image.    |
| <b>Set as Screen Saver</b> | Set the picture as your phone's screen saver image. |
| <b>Rename</b>              | Rename the picture.                                 |
| <b>Delete</b>              | Delete the picture.                                 |


## Playing Games

Your phone comes with 3 games. If you get an incoming call, message, alarm, or alert while playing a game, the game pauses.







## Selecting and Starting a New Game

### Find the Feature



 > **Games** > *the game*

When the game is over, you can play again or return to the games menu. Depending on the game:

| Press  | To  |
|--|---|
| BACK (  )<br>or<br>NO (  ) | return to the games menu                          |
| NEW (  )<br>or<br>YES (  ) | start another session of the game you just played |

## Ending a Game

You can end a game at any time.

| Press   | To  |
|---|---|
| BACK (  )<br>or<br> | end the game session and return to the games menu |

## Playing a Game

### Astrosmash

In Astrosmash, your job as Commander is to repel an attack of meteors and spinning bombs. You try to shoot as





many meteors, bombs, missiles, and flying saucers as possible without getting hit.



Level 1: 1500 point limit

| Item        | Points | Item           | Points |
|-------------|--------|----------------|--------|
| Big Rock    | 10     | Guided Missile | 50     |
| Small Rock  | 20     | Small Spinner  | 80     |
| Big Spinner | 40     | UFO            | 100    |



## Rules of the game

- Guided Missiles move toward the Laser Gun.
- UFOs appear when the score is greater than or equal to 5,000. UFOs sweep across the screen and release bombs at the Laser Gun. The bombs cannot be destroyed
- When you shoot a Big Rock, it breaks into 2 Small Rocks.
- When you are out of Laser Guns, the game is over. You lose a Laser Gun if a spinner (both big and small) hits the ground, or if a rock, rock pieces, or a guided missile collides with a Laser Gun.
- Every time the peak score goes up by another 1,000 points, you get another Laser Gun.

## How to Play

| Press   | To                                      |
|---|---|
|  | move the Laser Gun                      |
|  | move the Laser Gun to a random position |



| Press   | To  |
|---|---|
|  | toggle control for firing between you and the phone (Auto-Fire) |
|  | fire the Laser Gun, if Auto-Fire is off                         |






## MotoGP

In this game, you are a MotoGP motorcycle racer.

You can choose a team and track:

- **Quick Race** has 1 lap and 1 racer
- **Time Attack** is a time trial with yourself only
- **Grand Prix** is a series of 3 races with other competitors

## How to Play

| Press   | To  |
|---|---|
|    | accelerate, brake, and turn your motorcycle |
| <b>or</b>   |   |
|    | accelerate your motorcycle                  |
|  | brake your motorcycle                       |
|  | turn your motorcycle left                   |
|  | turn your motorcycle right                  |



## Snood 21

In this solitaire game, you try to use all the cards in a deck by making combinations of 21 on any of 4

columns. When a combination of 21 is created, the cards are discarded, letting you start another combination of 21.





## Rules of the game

- Aces are worth either 1 or 11, Jacks, Queens, and Kings are worth 10, and all other cards are worth the amount written on their faces.
- You can place a wild card in any non-frozen column for an automatic 21.
- When the countdown timer reaches 20 seconds, the word **HURRY** blinks twice in place of the cards left field. If the timer reaches zero and there is a card still on the deck, **OUT OF TIME** appears in place of the cards left field for 2 seconds and the game is over.
- The number of cards in a deck depends on the current level: the first level contains 32 cards (2 complete suits plus 6 wild cards), the second level contains 45 cards (3 complete suits plus 6 wild cards), the third and fourth levels contain 58 cards (all 4 complete suits plus 6 wild cards)
- When there are no more cards in the deck, you score 200 times the number of cards left in all the columns.
- Every time you place a card, you score 50 points.
- Whenever the total of all the cards placed on a column is equal to 21, you score 100 times the column's position (21 on the first column scores 100 points, while 21 on the third column scores 300). Five cards totalling less than 21 in a column is treated as 21.



- If the value of the cards in a column is greater than 21, the column is frozen and marked with an **X** (the column's total displays **BUST**).
- If all the columns become frozen, **NO MORE MOVES** appears in place of the cards left field for 2 seconds, and the game is over.

## How to Play

| Press   | To                                |
|---|-----------------------------------|
|  | place a card on the first column  |
|  | place a card on the second column |
|  | place a card on the third column  |
|  | place a card on the fourth column |

## Editing Sound with MotoMixer


The MotoMixer lets you edit and save special MIDI-based sound files called *Groove Tunes* on your phone. These sound files are made up of 4 instruments such as *piano*, *bass*, *drums*, and *guitar*. The phone comes preloaded with base tracks (which cannot be edited or deleted), but you can download others and use them all to create or edit your own MIDI files. The completed files appear in your list of available ring styles (see page 44).















## Create or Edit a Mix File

To create or edit a MotoMixer file:

### Find the Feature

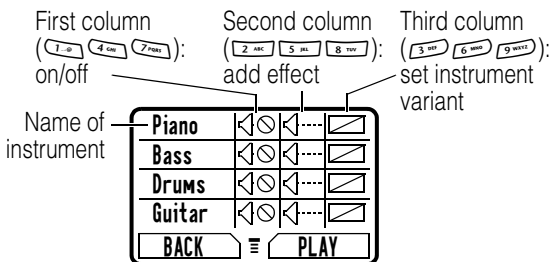
 > **Media Center**  
> **MotoMixer**  
> **[New Mix]** or  
*a tune to edit*

| Press  | To   |
|--|--|
| 1                     | scroll to the base track   |
| 2 <b>SELECT</b> (  )  | select the base track  |
| 3 <b>CHANGE</b> (  )  | select <b>Name</b>   |
| 4 keypad keys  | enter a name for the mix file you are creating (to enter text, see page 32)  |
| 5 <b>OK</b> (  )      | store the name   |
| 6 <b>CHANGE</b> (  )  | select <b>Tempo</b>  |
| 7  left or right      | adjust the tempo setting   |
| 8 <b>OK</b> (  )      | store the tempo setting  |
| 9 <b>CHANGE</b> (  )  | select <b>Mix</b> to open the mix editor   |
| 10 <b>PLAY</b> (  ) | start playing/mixing the track   |
| 11 keypad keys   | edit the instruments (see following section)<br><br>The track plays to the end and stops. To edit your mix, press <b>PLAY</b> (  ) again. |
| 12 <b>BACK</b> (  ) | close the base track editor  |
| 13 <b>DONE</b> (  ) | close the mix file display   |



## Mix File Editing Display and Keys

You can select the instruments you want to play and when you want to play them.






See the following table for details.



Press **PLAY** (▶) to play the mix file. Turn instruments on or off, add effects, and/or set an instrument variant using the following keypad keys.

| Key    | Effect  |
|--------|---|
| 1-0    | Turn on/off <i>first</i> instrument ( <b>Piano</b> above) |
| 2 ABC  | Add effect to <i>first</i> instrument                     |
| 3 DEF  | Set variant for <i>first</i> instrument                   |
| 4 CH   | Turn on/off <i>second</i> instrument ( <b>Bass</b> above) |
| 5 JKL  | Add effect to <i>second</i> instrument                    |
| 6 MNO  | Set variant for <i>second</i> instrument                  |
| 7 PDET | Turn on/off <i>third</i> instrument ( <b>Drums</b> above) |
| 8 TUV  | Add effect to <i>third</i> instrument                     |
| 9 WXYZ | Set variant for <i>third</i> instrument                   |



| Key   | Effect  |
|---|---|
|  | Turn on/off <i>fourth</i> instrument ( <b>Guitar</b> above) |
|  | Add effect to <i>fourth</i> instrument                      |
|  | Set variant for <i>fourth</i> instrument                    |

The following keys perform more mix functions:

| Key   | Effect  |
|---|---|
|                  | Open the <b>Mix Menu</b> to reset 1 or all instruments                |
| <b>BACK</b> (  ) | Return to the <b>Mix Details</b> display when you are finished mixing |





**Note:** To download new MotoMixer files, see page 56.

## Use, Edit, or Delete a Mix File

To edit or delete a mix file, or set a mix file as a ring tone:

### Find the Feature

 > **Media Center**  
> **MotoMixer**

| Press   | To   |
|---|--|
| 1                    | scroll to the file you want                              |
| 2                    | open the mix menu  |
| 3                    | scroll to <b>Edit, Delete, Play, or Set as Ring Tone</b> |
| 4 <b>SELECT</b> (  ) | select the option  |

For more about ring tones, see page 44.



# Using SIM Applications

Your SIM card may contain applications that process your outgoing calls, text messages, and other events. Contact your service provider for more information.



**Find the Feature**

 > **SIM Applications**

**Note:** To download new applications, see page 56.









# Phone Features











You can do more with your phone than make and receive phone calls! For example, you can:













- store frequently called numbers in the phonebook for easy dialing
- organize your meetings and other events in the datebook
- browse the Web
- download applications
- send messages, and more.













This section provides information to help you use features on your phone that are not described in this user guide. For more detailed information, see the reference guide.

## Calling Features

| Feature                | Description   |
|------------------------|---|
| <b>Conference Call</b> | During a call:<br>☎ > <b>Hold</b> , dial next number, press  , press <b>LINK</b> (  )<br> |
| <b>Call Forwarding</b> | Set up or cancel call forwarding:<br>☎ > <b>Settings</b><br>> <b>Call Forward</b><br>  |



| Feature                        | Description   |
|--------------------------------|---|
| <b>Call Barring</b>            | <p>Restrict outgoing or incoming calls:</p> <p> &gt; <b>Settings</b> &gt; <b>Security</b> &gt; <b>Call Barring</b></p>    |
| <b>TTY Calls</b>               | <p>Set up your phone for use with an optional TTY device:</p> <p> &gt; <b>Settings</b> &gt; <b>Other Settings</b> &gt; <b>Initial Setup</b> &gt; <b>TTY Setup</b></p>   |
| <b>Caller ID</b>               | <p><i>Calling line identification</i> (caller ID) displays the phone number for incoming calls. To hide your phone number before you make a call or send a message:</p> <p> &gt; <b>Settings</b> &gt; <b>In-Call Setup</b> &gt; <b>My Caller ID</b> &gt; <b>Next Call Only</b></p>  |
| <b>Cancel an Incoming Call</b> | <p>While the phone is ringing or vibrating, press <b>IGNORE</b> ().</p> <p>The call may be forwarded, or the caller may hear a busy signal.</p>    |
| <b>Turn Off an Alert</b>       | <p>To turn off your call alert when an incoming call arrives, press  up or down before answering the call.</p>   |
| <b>Dial Internat'l Numbers</b> | <p>Press  for 2 seconds to insert the international access code (+). Follow this with the country code and the number you are calling.</p>   |




| Feature                    | Description   |
|----------------------------|---|
| <b>View Recent Calls</b>   | <p> &gt; <b>Recent Calls</b> &gt; <b>Received Calls</b> or <b>Dialed Calls</b></p> <p><b>Note:</b> ✓ means the call connected. Select a call and press  to dial it, or press  for more options.</p>  |
| <b>Return Missed Calls</b> | <p>When your phone displays <b>Missed Calls</b>, press <b>VIEW</b> () to see the list of calls, and press  to dial the selected call.</p>   |
| <b>View Last Entry</b>     | <p>To see the last digits you entered:<br/>  &gt; <b>Recent Calls</b> &gt; <b>Notepad</b></p>  |
| <b>Attach a Number</b>     | <p>While entering a phone number, press  &gt; <b>Attach Number</b> to attach a number from the phonebook or recent calls list.</p>   |
| <b>Speed Dial</b>          | <p>Call a phonebook entry by pressing its <b>Speed Dial No.</b> plus .</p> <p><b>Example:</b> Press  2 ABC  2 ABC  # B  to dial phonebook entry <b>22</b>.</p> |
| <b>1-Touch Dial</b>        | <p>Call phonebook entries <b>1</b> through <b>9</b> by pressing and holding the entry number in the idle display.</p>   |

| Feature                   | Description   |
|---------------------------|---|
| <b>Call Waiting</b>       | <p>While you are on a call, you can press  to answer a second incoming call. Then, press <b>SWITCH</b> () to switch between the calls or <b>LINK</b> () to connect them.</p> <p>To turn call waiting on or off:<br/>  &gt; <b>Settings</b> &gt; <b>In-Call Setup</b> &gt; <b>Call Waiting</b></p>                     |
| <b>Put a Call on Hold</b> | <p>During the call, press <b>HOLD</b> () (if available) or  &gt; <b>Hold</b>. Your phone displays a  (flashing phone) when a call is on hold.</p>  |
| <b>Transfer a Call</b>    | <p>During a call, press  &gt; <b>Transfer</b> (<i>target number</i>)  to transfer it.</p> <p><b>Note:</b> You can also press  &gt; <b>Hold</b> (<i>target number</i>) , speak to the receiving party, then  &gt; <b>Transfer</b></p> |








## Message Features





| Feature                             | Description  |
|-------------------------------------|--|
| <b>Send Message</b>                 | <p>Send a text message:<br/>  &gt; <b>Messages</b> &gt; <b>Create Message</b></p> |
| <b>Insert Pictures &amp; Sounds</b> | <p>While composing a message:<br/>  &gt; <b>Insert</b></p>                        |

| Feature                            | Description   |
|------------------------------------|---|
| <b>Received Messages</b>           | Read received messages:<br> > <b>Messages</b> > <b>Text Msgs</b><br>Press  to perform various operations on the selected message. |
| <b>Store Pictures &amp; Sounds</b> | Highlight a picture or sound in a message, then:<br> > <b>Store</b>  |

## Chat Features

| Feature                     | Description  |
|-----------------------------|--|
| <b>Start Chat</b>           | Start a new chat session:<br> > <b>Chat</b><br> > <b>New Chat</b>                  |
| <b>Receive Chat Request</b> | When you receive a chat request:<br>Press <b>ACCEPT</b> (  ) or <b>IGNORE</b> (  ) |
| <b>End Chat</b>             | During a chat session:<br> > <b>End Chat</b>  |

## Phonebook Features

| Feature             | Description   |
|---------------------|---|
| <b>Create Entry</b> | Create a new phonebook entry:<br> > <b>Phonebook</b><br> > <b>New</b> > <b>Phone Number</b> or <b>Email Address</b> |
| <b>Dial Number</b>  | Call a number in the phonebook:<br> > <b>Phonebook</b> > <i>entry to call</i>                                       |

| Feature                             | Description  |
|-------------------------------------|--|
| <b>Voice Dial Number</b>            | Voice dial a number in the phonebook:<br>Press <b>[F7]</b> > <b>Voice Dial</b> , and say the entry's name (in 2 seconds)   |
| <b>Store a PIN Code in a Number</b> | While entering a number:<br><b>[F7]</b> > <b>Insert Pause, Wait, or 'n'</b><br><b>Pause:</b> waits for the call to connect, then sends the remaining digit(s). If your network does not recognize the first pause character, try two ( <b>pp</b> ).<br><b>Wait:</b> waits for the call to connect, then prompts you for confirmation before it sends the remaining digit(s).<br><b>'n':</b> 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 |
| <b>Phonebook Categories</b>         | You can put phonebook entries into categories. When you get a call or message from someone in a category, your phone uses the category's special ring.<br>To set up a category, press <b>[F7]</b> > <b>Phonebook</b> <b>[F7]</b> > <b>Categories</b> . Scroll to the category, then press <b>[F7]</b> > <b>Edit</b><br><br>To set an entry's category, press <b>[F7]</b> > <b>Phonebook</b> > <i>entry to edit</i> , then press <b>EDIT</b> ( <b>[F7]</b> ).   |

| Feature             | Description  |
|---------------------|--|
| <b>1-Touch Dial</b> | Set 1-touch dial to call entries stored in your phone memory phonebook or the SIM card phonebook:<br>☰ > <b>Settings</b> > <b>Other Settings</b><br>> <b>Initial Setup</b> > <b>1-Touch Dial</b> |

## Personalizing Features

| Feature              | Description   |
|----------------------|---|
| <b>Event Alert</b>   | Change an event alert:<br>☰ > <b>Ring Styles</b> > <i>Style Detail</i><br>> <i>event name</i>                                     |
| <b>Ring Volume</b>   | Adjust ringer volume:<br>☰ > <b>Ring Styles</b> > <i>Style Detail</i><br>> <b>Ring Volume</b>                                     |
| <b>Keypad Volume</b> | Adjust keypad keypress volume:<br>☰ > <b>Ring Styles</b> > <i>Style Detail</i><br>> <b>Key Volume</b>                             |
| <b>My Tones</b>      | Compose your own ring tones, manage ring tones that you have composed or downloaded:<br>☰ > <b>Media Center</b> > <b>My Tones</b> |
| <b>Themes</b>        | Apply the wallpaper, screen saver, ring style, and other settings in a theme<br>☰ > <b>Media Center</b> > <b>Theme</b>            |

| Feature          | Description   |
|------------------|---|
| <b>Shortcuts</b> | <p>Create a shortcut to a menu item:<br/>Highlight the menu item, then press and hold <b>⌘</b></p> <p>Select a shortcut:<br/><b>⌘</b> &gt; <b>Shortcuts</b> &gt; <i>shortcut name</i></p> |

## Menu Features

| Feature             | Description   |
|---------------------|---|
| <b>Language</b>     | <p>Set menu language:<br/><b>⌘</b> &gt; <b>Settings</b> &gt; <b>Other Settings</b><br/>&gt; <b>Initial Setup</b> &gt; <b>Language</b></p>   |
| <b>Master Reset</b> | <p>Reset all options <i>except</i> unlock code, security code, lifetime timer:<br/><b>⌘</b> &gt; <b>Settings</b> &gt; <b>Other Settings</b><br/>&gt; <b>Initial Setup</b> &gt; <b>Master Reset</b></p>                                      |
| <b>Master Clear</b> | <p>Reset all options <i>except</i> unlock code, security code, lifetime timer, clear all user settings and entries:<br/><b>⌘</b> &gt; <b>Settings</b> &gt; <b>Other Settings</b><br/>&gt; <b>Initial Setup</b> &gt; <b>Master Clear</b></p> |



## Dialing Features

| Feature           | Description  |
|-------------------|--|
| <b>Fixed Dial</b> | <p>Turn fixed dialing on or off:<br/>☰ &gt; <b>Settings</b> &gt; <b>Security</b><br/>&gt; <b>Fixed Dial</b></p> <p>Use the fixed dial list:<br/>☰ &gt; <b>Fixed Dial</b></p>   |
| <b>DTMF Tones</b> | <p>Activate DTMF tones:<br/>☰ &gt; <b>Settings</b> &gt; <b>Other Settings</b><br/>&gt; <b>Initial Setup</b> &gt; <b>DTMF</b></p> <p>Send DTMF tones during a call:<br/>Press number keys</p> <p>Send stored numbers as DTMF tones during a call:<br/>Highlight a number in the phonebook or recent call lists, then press ☰<br/>&gt; <b>Send Tones</b></p> |






## Call Monitoring Features

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


**The amount of network connection time you track on your resettable timer may not equal the amount of time for which you**

are billed by your service provider. For billing information, please contact your service provider directly.





| Feature              | Description  |   |
|----------------------|--|---|
| <b>Call Times</b>    | View call timers:<br>☰ > <b>Recent Calls</b><br>> <b>Call Times</b>  |  |
| <b>In-Call Timer</b> | Display time or cost information during a call:<br>☰ > <b>Settings</b><br>> <b>In-Call Setup</b><br>> <b>In-Call Timer</b> |  |
| <b>Call Cost</b>     | View call cost trackers:<br>☰ > <b>Recent Calls</b><br>> <b>Call Cost</b>  |  |

## Hands-Free Features



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

| Feature                                    | Description   |   |
|--|---|---|
| <b>Auto Answer</b><br>(car kit or headset) | Automatically answer calls when connected to a car kit or headset:<br>☰ > <b>Settings</b><br>> <b>Other Settings</b> > <b>Car Settings</b> or <b>Headset</b> > <b>Auto Answer</b> |  |




## Data and Fax Call Features

| Feature                 | Description  |   |
|-------------------------|--|---|
| <b>Send Data or Fax</b> | Connect your phone to the device, then place the call through the device application   |  |
| <b>Talk Then Fax</b>    | Connect your phone to the device, enter the number, press  > <b>Talk Then Fax</b> , then press  to make the call |  |







## Network Features

| Feature                 | Description  |   |
|-------------------------|--|---|
| <b>Network Settings</b> | View network information and adjust network settings:<br> > <b>Settings</b><br>> <b>Other Settings</b> > <b>Network</b> |  |



## Personal Organizer Features

| Feature                    | Description   |  |
|----------------------------|---|--|
| <b>Add Datebook Event</b>  | Add an event to the datebook:<br> > <b>Office Tools</b> > <b>Datebook</b> > <i>day</i><br> > <b>New</b> |  |
| <b>View Datebook Event</b> | View or edit event details:<br> > <b>Office Tools</b> > <b>Datebook</b> > <i>day</i><br>> <i>event name</i>  |  |



| Feature                   | Description   |
|---------------------------|---|
| <b>Event Reminder</b>     | View event when reminder appears:<br><b>VIEW</b> (  )<br><br>Dismiss event reminder:<br><b>EXIT</b> (  )  |
| <b>Calculator</b>         | Calculate numbers:<br> > <b>Office Tools</b> > <b>Calculator</b>   |
| <b>Currency Converter</b> | Convert currency:<br> > <b>Office Tools</b> > <b>Calculator</b><br> > <b>Exchange Rate</b><br><br>Enter exchange rate, press <b>OK</b> (  ),<br>enter amount, select \$ function |

## Security Features

| Feature                 | Description   |
|-------------------------|---|
| <b>SIM PIN</b>          | Lock or unlock the SIM card:<br> > <b>Settings</b> > <b>Security</b> > <b>SIM PIN</b><br><br><b>Caution:</b> If you enter an incorrect PIN code 3 times in a row, your SIM card is disabled and your phone displays <b>SIM Blocked</b> . |
| <b>Lock Application</b> | Lock phone applications:<br> > <b>Settings</b> > <b>Security</b> > <b>Lock Application</b>   |

# ***Specific Absorption Rate Data***

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## **The model 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 the Canadian regulatory authorities. 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 the Canadian regulatory authorities is 1.6 W/kg.<sup>1</sup> Tests for SAR are conducted using standard operating positions accepted by the FCC and by Industry Canada with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station, the lower the power output.

Before a phone model is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does not exceed the limit established by each government for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) reported to the FCC and available for review by Industry Canada. The highest SAR value for this model phone when tested for use at the ear is 1.05 W/kg, and when worn on the body, as described in this user guide, is 0.395 W/kg. (Body-worn measurements

differ among phone models, depending upon available accessories and regulatory requirements).<sup>2</sup>

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. Please note that improvements to this product model could cause differences in the SAR value for later products; in all cases, products are designed to be within the guidelines.

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.

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

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

## ***Why the concern?***

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

## ***What kinds of phones are in question?***

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

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

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

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

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

- 1 In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of



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

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

- 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.<sup>2</sup>

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association

(CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

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

- 1 Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.<sup>3</sup>
- 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.<sup>4</sup>

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

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

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

100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

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

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

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

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

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

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

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

The National Institutes of Health also participates in this group.

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

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

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

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

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

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

## ***Where can I find additional information?***

For additional information, see the following Web sites:

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

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

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

**United Kingdom, National Radiological Protection Board:**

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

**Cellular Telecommunications Industry Association (CTIA):**

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

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

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

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.

# ***Motorola Limited Warranty for the United States and Canada***

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## ***What Does this Warranty Cover?***

Subject to the exclusions contained below, Motorola, Inc. warrants its telephones, pagers, messaging devices, 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***

| <b>Products Covered</b>  | <b>Length of Coverage</b>   |
|--|---|
| <b>Products and Accessories</b> as defined above, unless otherwise provided for below.           | <b>One (1) year</b> from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below. |
| <b>Decorative Accessories and Cases.</b> Decorative covers, bezels, PhoneWrap™ covers and cases. | <b>Limited lifetime warranty</b> for the lifetime of ownership by the first consumer purchaser of the product.                    |

| <b>Products Covered</b>   | <b>Length of Coverage</b>  |
|---|--|
| <b>Monaural Headsets.</b> Ear buds and boom headsets that transmit mono sound through a wired connection. | <b>Limited lifetime warranty</b> for the lifetime of ownership by the first consumer purchaser of the product.                   |
| <b>Consumer and Professional Two-Way Radio Accessories.</b>   | <b>Ninety (90) days</b> from the date of purchase by the first consumer purchaser of the product.                                |
| <b>Products and Accessories that are Repaired or Replaced.</b>  | <b>The balance of the original warranty or for ninety (90) days</b> from the date returned to the consumer, whichever is longer. |

## ***Exclusions***

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

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

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

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



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

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

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

## ***Software***

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

## ***Exclusions***

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

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

## ***Who is Covered?***

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

## ***What Will Motorola Do?***

Motorola, at its option, will at no charge repair, replace or refund the purchase price of any Products, Accessories or Software that does not conform to this warranty. We may use functionally equivalent reconditioned/refurbished/pre-owned or new Products, Accessories or parts. No data, software or applications added to your Product, Accessory or Software, including but not limited to personal contacts, games and ringer tones, will be reinstalled. To avoid losing such data, software and applications please create a back up prior to requesting service.

## ***How to Obtain Warranty Service or Other Information***

|  |  |
|--|--|
| <b>USA</b>   | <b>Phones</b> 1-800-331-6456<br><b>Pagers</b> 1-800-548-9954<br><b>Two-Way Radios<br/>and Messaging Devices</b> 1-800-353-2729 |
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12. Safety. Please obey all local laws and keep safety in mind when using this device to access the Service while engaging in any activity that requires your full attention.

AOL, AOL Instant Messenger, AIM, Buddy List, and Triangle are trademarks, registered trademarks, and service marks of America Online, Inc.

AOL Part No. AOLIM091901c SKU # (TM1029)

## ***Product Registration***

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Online Product Registration:

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

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

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

Thank you for choosing a Motorola product.

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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.

## ***RF Energy Interference***

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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.



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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.
- 2 When available, use a hands-free device.** If possible, add an additional layer of convenience to your wireless

phone with one of the many Motorola Original™ hands-free accessories available today.



- 3 **Position your wireless phone within easy reach.** Be able to access your wireless phone without removing your eyes from the road. If you receive an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
- 4 **Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.** Rain, sleet, snow, ice, and even heavy traffic can be hazardous.
- 5 **If you receive an incoming call at an inconvenient time do not take notes or look up phone numbers while driving.** Jotting down a “to do” list or going through your address book takes attention away from your primary responsibility—driving safely.
- 6 **Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.** Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
- 7 **Do not engage in stressful or emotional conversations that may be distracting.** Make people you are talking with aware you are driving and suspend conversations which have the potential to divert your attention away from the road.
- 8 **Use your wireless phone to call for help.** Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.\*



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

\* Wherever wireless phone service is available.

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



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