

INSTRUCTION MANUAL

- A preliminary draft copy of the User's Manual follows this cover page.
- The User's Manual will have the following text added to it:

"NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help."

A statement according to FCC Part 15.19(a) will be included in the production version of the user's manual.



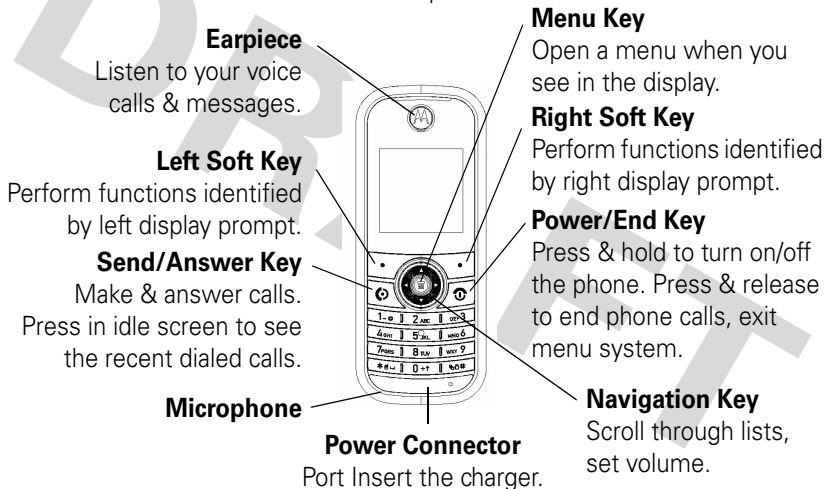
MOTOMANUAL

W170
CDMA

motorola.com

HELLOMOTO

Welcome to the world of Motorola digital wireless communications! We are pleased that you have chosen the Motorola W170 wireless phone.



Motorola, Inc.
Consumer Advocacy Office
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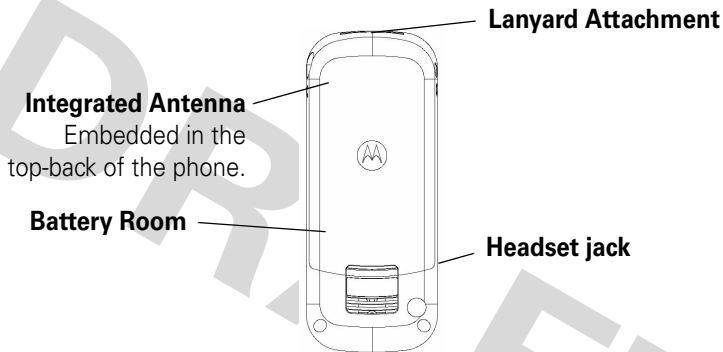
www.hellomoto.com

Certain mobile phone features are dependent on the capabilities and settings of your service provider's network. Additionally, certain features may not be activated by your service provider, and/or the provider's network settings may limit the feature's functionality. Always contact your service provider about feature availability and functionality. All features, functionality, and other product specifications, as well as the information contained in this user's guide are based upon the latest available information and are believed to be accurate at the time of printing. Motorola reserves the right to change or modify any information or specifications without notice or obligation.

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Manual Number:

check it out!



Note: Your phone may not appear exactly as the phone image above, however, all key locations, sequences, and functions remain the same.

Use and Care

To care for your Motorola phone, please keep it away from:



liquids of any kind

Don't expose your phone to water, rain, extreme humidity, sweat, or other moisture.



dust and dirt

Don't expose your phone to dust, dirt, sand, food, or other inappropriate materials.



extreme heat or cold

Avoid temperatures below -10°C/14°F or above 45°C/113°F.



cleaning solutions

To clean your phone, use only a dry soft cloth. Don't use alcohol or other cleaning solutions.



microwaves

Don't try to dry your phone in a microwave oven.



the ground

Don't drop your phone.

feature locator

main menu



Messages

- Create Message
- Voicemail
- Text Msgs
- Quick Notes
- Outbox
- Drafts



Phonebook

- [New Entry]



Recent Calls

- Missed Calls
- Received Calls
- Dialed Calls
- Call Times



Games

- Spring Ball
- Football
- Maze



MyMenu

- [New MyMenu]



Ring Styles

- Alert
- Silent Detail
- My Tones
- Other Alert



Alarm Clock

- [New Entry]



Settings

- Phone Status
- In-Call Setup
- Security
- Other Settings



More

- Calculator
- Exchange Rate
- Stop Watch
- Service Dial
- Screen Saver

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essentials

about this guide

This guide shows how to locate a menu feature as follows:

Find it: Press  > **Phonebook** > **Search** > **Name**

This example shows that, from the home screen, you press left soft key to open the menu, highlight and select **Phonebook**, highlight and select **Search**, then highlight and select **Name**.

Press  up or down to highlight a menu feature. Press  on the navigation key to select the highlighted menu feature.

symbols



This means a feature is network/subscription dependent and may not be available in all areas. Contact your service provider for more information.



This means a feature requires an optional accessory.

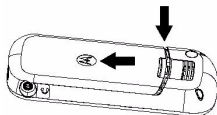
RUIM card

Your *Removable-User Identity Module* (RUIM) card contains personal information like your phone number and phonebook entries.

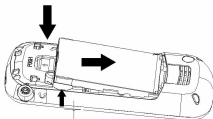


Caution: Don't bend or scratch your RUIM card. Keep it away from static electricity, water, and dirt.

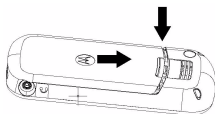
1



2



3



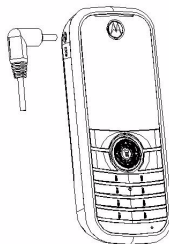
battery

battery installation

battery charging

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

When the battery charging is complete, the battery icon will change to a battery full icon () and the screen displays **Charging Complete**.



Tip: Relax, you can't overcharge your battery. It will perform best after you fully charge and discharge it a few times.

battery tips

Battery life depends on the network, signal strength, temperature, features, and accessories you use.

- Always use Motorola Original batteries and chargers. The warranty does not cover damage caused by non-Motorola batteries and/or chargers.
- New batteries or batteries stored for a long time may take more time to charge.
- When charging your battery, keep it near room temperature.



- When storing your battery, keep it uncharged in a cool, dark and dry place.
- Never 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.
- It is normal for batteries to gradually wear down and require longer charging times. If you notice a change in your battery life, it is probably time to purchase a new battery.

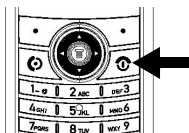


Contact your local recycling center for proper battery disposal.

Warning: Never dispose of batteries in a fire because they may explode.

turn it on & off

To turn on your phone, press and hold  for 2 seconds. If prompted, enter your 8-digit RUIM card PIN code and/or 4-digit unlock code.



Caution: If you enter an incorrect PIN code 3 times in a row, your RUIM card becomes disabled and your phone displays **RUIM Blocked**. Contact your service provider if your RUIM is blocked.

To turn off your phone, press and hold  for 2 seconds. If prompted, enter your 4-digit unlock code.

make a call

In home screen, enter a phone number (up to 32 digits) and press . To end a call, press .

answer a call

To answer an incoming call, press  or any key if **Answer Option** is set to **Any Key**. To end a call, press .

If your phone subscribes to Caller ID, a caller's phone number will be displayed on screen. If caller's number is stored in the **Phonebook**, the caller's name will be displayed.

correcting entry errors

To correct a misdialled digit, press  to erase one digit at a time. You can erase all the digits at once by pressing  and holding it down over one second.

main attractions

phonebook search

Press  up/down to directly access the phonebook.

Press the key of the first letter of the contact's name. For example, if you want to check John's phone number, press  to access the phonebook list that starts from J. Press  down to scroll through the contact list until you locate John's phone number.

storing phone numbers

Phone numbers for frequently used services are pre-programmed into your phone. To store a number,

- Enter a phone number and press **STORE**. Or in home screen, press  > **Phonebook** > **[New Entry]**.
- Press  down and enter the name.
- Press  down and enter the phone number.
- If necessary, press  to change **Speed No.**.
- Press **DONE** to store.

adjusting in-call microphone volume

To adjust the in-call microphone volume:

- During a call, press  and **5. MIC Volume**.
- Press  right/up to increase and  left/down to decrease the mic volume.
- Press  to mute the call.

Once a call has ended, the mic volume reverts back to the default volume.

volume

During a call, you can adjust the volume of the earpiece by using  right/up to increase and  left/down to decrease. Briefly press the key once to display your current earpiece volume setting.

Repeatedly press the key to adjust.

using caller ID

This feature informs you of the caller's identification by displaying their number when the phone rings.

If the corresponding caller's information is already available in your **Phonebook**, that caller's name will appear on screen. Calling someone who has this feature will display your number on their phone. To access the call log, press .

redialing last dialed, received, or missed number

Up to 30 dialed, received, or missed calls can be redialed directly. Simply press  to:

- Access the call log of 30 call entries in chronological order.
- Then, press the **VIEW** to see the time and number of the selected call.
- Simply press  to redial that number.

speed dialing

Once a phone number is stored in your **Phonebook**, you can access and dial that number using assigned speed dial keys. Enter the location number of a stored number and press . The phone will then automatically connect to that number. Press  to dial the number.

keypad lock/unlock

You can lock the keypad to prevent the keys from being accidentally pressed, for example, when your phone is in your pocket. You can do it by pressing  for a second in home screen. Alternatively, press  and  to lock. To unlock, press  and .

etiquette mode

In social situations where audible rings, bells, or tones are inappropriate, such as in a movie theater, at a museum, play, etc, your phone can be set on etiquette mode. All incoming calls under this mode will be notified by inaudible vibration. Press the navigation key left or right to display the volume meter in home screen. Keep pressing ◀ left to activate **Silent** mode. To unmute the phone, press ▶ right once or for more times. Press one time to cancel the mode.

shortcut

- **Keypad Lock:** When the phone is in home screen, press and hold  for one second to lock. Alternatively, press  and  to lock. To unlock the keypad, press  and .
- **Etiquette Mode:** Keep pressing ◀ left to activate **Silent** mode. Keep pressing ▶ right to unmute the phone.
- **Phone Book Entry:** Press  up/down. All stored phone numbers will be listed in alphabetical order.

fm radio

Plugging in the headset changes the **MYMENU** option, on the home screen, to the **RADIO** option. Pressing RADIO turns the FM Radio on; pressing RADIO again turns it off. When activated, pressing (menu wheel) left/right adjusts the frequency while pressing (menu wheel) up/down adjusts the volume. The **SPK ON** option turns on the speaker while **SPK OFF** turns it off.

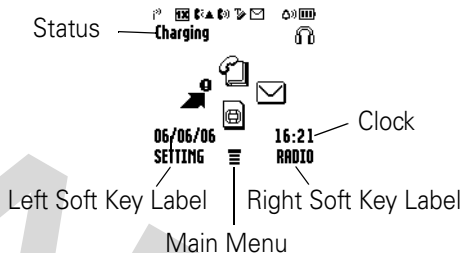
basics

See page 1 for a basic phone diagram.

display

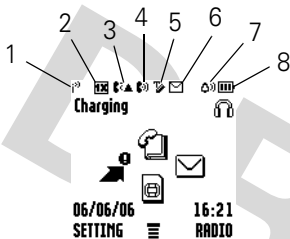
The *home screen* displays when you turn on the phone. To dial a number from the home screen, press number keys and .

Note: Your home screen may look different from the one below, depending on your service provider.



Soft key labels show the current soft key functions. For soft key locations, see page 1.

Status indicators display at the top of the home screen:



- 1 Signal Strength Indicator –** Shows the strength of your phone's connection with the network.
- 2 1X Indicator –** Shows that the phone is operating in 1X mode.
- 3 Roam Indicator –** Appears when your phone uses a network system outside your home network. This icon can also indicate your text

entry mode, alpha, numeric, symbol and etc.

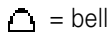
- 4 In Use Indicator –** Indicates when a call is in progress, and when you have a secure or insecure connection.
- 5 Enter Method Indicator –** Displays the type of entry method you selected.
- 6 Message Indicator –** Appears when you have a new voice or text message waiting:

 = text/voice message

 = message full

Note: When the message full indicator appears, it means the message inbox has reached the storage limit. Delete the old messages so that your phone can receive new ones.

7 Alert Type Indicator – Displays your assigned ring type.



= bell



= vibrate
then bell



= vibration



= vibrate +
bell



= bell then
vibrate

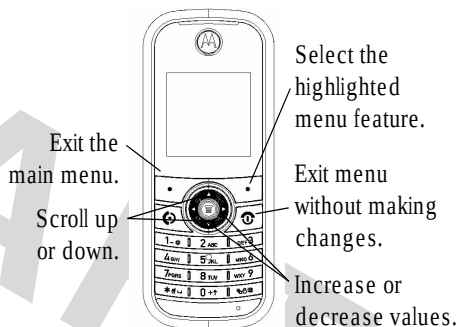


= silent

8 Battery Level Indicator – Shows the amount of charge left in your battery. The more bars present, the greater the charge.

menus

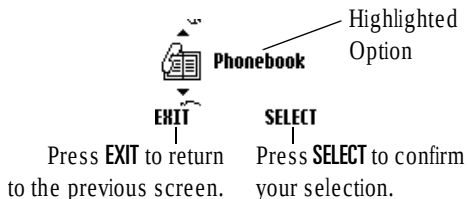
From the home screen, press  to enter the main menu and scroll up and down through the main menu list.



The following menu icons may be available, depending on your service provider and service subscription options.

menu features	
 Messages	 Ring Styles
 Phonebook	 Alarm Clock
 Recent Calls	 Settings
 Games	 More
 MyMenu	

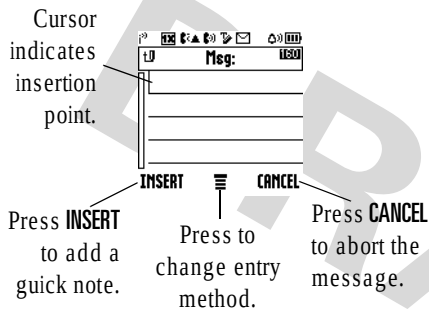
Some features require you to select an option from a list:



- Scroll up or down to highlight the option you want.
- When an option has a list of possible values, scroll left or right to select the values.

text entry

Some features let you enter text.



Press  in a text entry screen to select an entry mode:

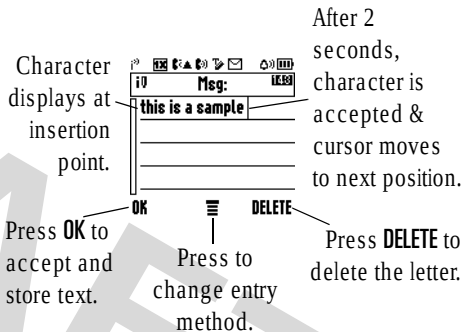
entry mode	
TAP	Your Tap entry modes include: • TAP English
iTap	Your Tap entry modes include: • iTAP English • iTAP PinYin • iTAP Stroke
Number	Numeric mode (123) enters numbers only
Symbol	Symbol mode (\$ %) enters symbols only

iTAP[®] mode

Press  in a text entry screen to select and switch to iTAP mode. iTAP mode lets you enter words using one key press per letter. When iTAP is selected, its icon with an arrow will display on the top screen. The iTAP software combines your key presses into common words, and predicts each word as you enter it.

For example, if you press    , your phone displays a list of word combination such as **appl**, **aspj**, and **aspk**.

When you enter three or more characters in a row, your phone will guess the rest of the word. For example, if you enter **appl** your phone might display:



tap mode

Press  in a text entry screen and select Tap mode. To enter text in tap mode, press a keypad key repeatedly to cycle through the letters and number on the key. Repeat this step to enter each letter.

numeric mode

Press the number keys to enter the numbers you want.

symbol mode

Press a keypad key to show its symbols at the bottom of the display.

Highlight the symbol you want and press the **SELECT** key.

navigation key

Press the *navigation* key  up or down to scroll and highlight things. When you highlight something, press the right soft key to select it.



codes & passwords

To change your 4-digit codes or passwords:

Find it: Press  > **Settings** > **Security** > **New Passwords**

Tip: To change passwords, you must confirm your password by entering it twice.

lock & unlock phone

Phone Lock restricts all outgoing calls except emergency numbers.

To lock the phone manually:

Find it: Press  > **Settings** > **Security** > **Phone Lock** > **Lock Now**

To lock the phone automatically:

Find it: Press  > **Settings** > **Security** > **Phone Lock** > **Automatic Lock**

Tip: To place a call when the phone is locked, you must unlock the phone first. The lock/unlock code is set to 0000 (4zeros).

customize

ring style

Your phone rings and/or vibrates to notify you of an incoming call, message or other event. There are five ring types in your phone: **Loud Ring**, **Soft Ring**, **Vibrate**, **Vibe then Ring**, and **Silent**.

To select a ring type:

Find it: Press  > **Ring Styles** > **Alert**

To select **My Tones**:

Find it: Press  > **Ring Styles** > **My Tones**

To turn **Minute Alert** on/off:

Find it: Press  > **Ring Styles** > **Other Alert** > **Minute Alert**

To adjust the volume for different alert:

Find it: Press  > **Ring Styles** > **Alert Detail** > **Ring Volume**, **Key Volume**, or **Earpiece Vol.**

Select an alert type for **In call**, **Message Tone**, **Alarms**, and **Voicemail**:

Find it: Press  > **Ring Styles** > **Alert Detail** > desired event

This phone contains 32 preloaded polyphonic ringtones. More can be downloaded via **BREW**.

time & date

To set the time and date for your phone:

Find it: Press  > **Settings** > **Other Settings** > **Initial Setup** > **Time and Date**

animation

Your phone plays an animation when it is powered on.

display appearance

To set the contrast of your phone:

Find it: Press  > **Settings** > **Other Settings** > **Initial Setup** > **Contrast**

To save battery life, your backlight turns off when you're not using your phone. The backlight turns back on when you press any

key. To set how long your phone waits before the backlight turns off:

Find it: Press  > **Settings** > **Other Settings** > **Initial Setup** > **Backlight**

screen saver

To set a screen saver for your phone:

Find it: Press  > **Settings** > **Personalize** > **Screen Saver** > **Picture**

This phone comes with several preloaded screen savers (**Train, Summer, Frog, Motorola Batwing & Analog Clock**).

More screen savers may be downloaded via **BREW**. To set the screen saver delay time:

Find it: Press  > **Settings** > **Personalize** > **Screen Saver** > **Delay**

battery save

To save battery power, you may turn on the **Battery Save** feature:

Find it: Press  > **Settings** > **Other Settings** > **Initial Setup** > **Battery Save**

answer options

You can use additional, alternative methods to answer an incoming call. To activate or deactivate an answer option:

Find it: Press  > **Call Info** > **Answer Call**

option	
Anykey	Answer by pressing any key.
Send key	Answer by pressing  .

calls

This chapter describes features related to making and answering calls.

recent calls

Your phone keeps lists of incoming and outgoing calls, even for calls that didn't connect. The most recent calls are listed first. The oldest calls are deleted as new calls are added.

Find it: Press  > **Recent Calls** > desired call list

- 1 Highlight **Missed Calls**, **Received Calls**, or **Dialed Calls**, and press **SELECT**.

- 2 Highlight a call. A marker next to a call means the call connected.

- To call the number, press .
- To see call details (like time and date), press the **VIEW**.

redial

- 1 Press  from the home screen to see the **Dialed Calls** list. Or press  > **Phonebook** > **Call List** > **Dialed Calls**, **Missed Calls**, and **Received Calls**. 
- 2 Highlight the entry you want to call, then press .

return a call

Your phone keeps a record of your unanswered calls, and displays **Missed Calls** on the screen.

- 1 Press **OK** to see the **Received Calls** list.
- 2 Highlight the call you want to return, and press .

mute a call

When you are on a call:

- 1 Press  > **Mute** or  > **Mute**.

When a call comes in and the phone rings, you can press  on the navigation key to mute the call/ring.

caller ID

Calling Line Identification (caller ID)



shows the phone number for an incoming call in your external and internal displays.

Your phone shows the caller's name when they're stored in your phonebook, or **Received Calls** when caller ID information isn't available.

You can set your phone to play a distinctive ringer ID for specific entries stored in your phonebook.

emergency calls

Your service provider programs one or more emergency phone numbers (such as 112 or 911) that you can call under any circumstances, even if the RUIM card is not inserted. You can dial and call the emergency number even when your phone is locked, when you are prompted to enter a code or password.

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

To call the emergency number at any time:

- 1 Press the keypad keys to dial the emergency number.
- 2 Press  to call the emergency number.

international calls

If your phone service includes international dialing, press and hold  to insert your local international access code (indicated by +). Then, press the keypad keys to dial the country code and phone number.



voice mail

You can listen to your voice mail messages by calling your network voice mail phone number. Voice mail messages are stored on the network—not on your phone. Contact your service provider for more details.



When you receive a voice mail message, your phone displays a new voice mail indicator on the status pane. (Some networks only indicate when you have messages, whether they are new or not.) If users delete all voice mail messages, the voice mail indicator will disappear.

To listen to your voice mail message:

Find it: Press  > **Messages** > **Voicemail**

Your phone calls the voice mail phone number you stored.

special characters

In addition to pressing numbers on your keypad, you can insert special characters in a phone number.

While dialing (with digits visible in the display), you can press  up to select from hard pause, time pause, **p** shows and then **t** will show later in the display:

option	
Hard pause (p)	Your phone waits until the call connects, then prompts you for confirmation before it dials the next digit(s).
Time pause (t)	Your phone waits until the call connects before it dials the next digit(s) in the series.

other features

phonebook

feature	
add new entry	To add a new contact to your phonebook: ☰ > Phonebook > [New Entry] Select a location, enter entry details, and press DONE .
view contact list	To view phonebook list: From home screen, press ▼ or ▲.

feature	
search entry by name	To search entry by name: ☰ > Phonebook Tip: Enter the first letter of a name to show similar names.
delete an entry	To delete a phonebook entry: ☰ > Phonebook > ☰ > Delete
delete all entries	To delete all phonebook entries: ☰ > Phonebook > ☰ > Delete All

feature	
attach a phone number	To attach a phone number to an entry:  > Phonebook >  > Attach Number
view phone capacity	To view the remaining phone memory:  > Phonebook >  > Phone Capacity

recent calls

feature	
view call list	To view outgoing, incoming and missed call lists:  > Recent Calls Tip: You may refer to your call history for more information such as number, time, date, and duration.
clear call list	To delete missed, called, received and stored call lists:  > Phonebook > Delete All > <i>call list</i> > OK

feature	
view call times	To view the call duration of last call, dialed calls, received calls and all calls: ☎ > Recent Calls > Call Times

messages

feature	
read old text messages	☎ > Messages > Text Msgs
delete text messages	☎ > Messages > <i>location</i> > <i>message</i> > ☎ > Delete
call the message sender	☎ > Messages > <i>location</i> > <i>message</i> > ☎ > Send
create a new message	☎ > Messages > Create Messages
edit an old message	☎ > Messages > <i>location</i> > <i>message</i> > ☎ > Edit

feature	
listen to a voice message	☎ > Messages > Voicemail Note: When you receive a voice mail, your phone displays e. Sometimes e won't disappear even if you checked the message. It depends on the condition of the service provider's system.
set message alert	To set a message alert type: ☎ > Messages > ☎ > Text Msg Setup > SMS Alert

feature	
set up voicemail box	To set up your voicemail box before you can receive a voicemail: ☎ > Messages > ☎ > Voicemail Setup
view the message memory meter	To view the remaining memory space for messages: ☎ > Messages > ☎ > Memory Meter

feature	
delete messages	To clean up your messages folders manually: ☰ > Messages > ☰ > Cleanup Now Tip: Select the desired folder that you would like to delete. To clean up your message folders automatically: ☰ > Messages > ☰ > Auto Delete Inbox or Auto Delete Outbox
Auto Retry	To set Auto Retry: ☰ > Messages > ☰ > Auto Retry > Enable or Disable

feature	
set call back display	To set call back display: ☰ > Messages > ☰ > Call Back Display
delivery ack	To set Delivery Ack: ☰ > Messages > ☰ > Delivery Ack > Enable or Disable

settings

feature	
set my Tel. numbers	To set My Tel. Numbers: ☎ > Settings > Phone Status > My Tel. Numbers Tip: You are allowed to set up to two numbers. Note: To view My Tel. Numbers during a call, press ☎ and scroll down to see the feature.
view ESN	☎ > Settings > Phone Status > ESN
view battery meter	☎ > Settings > Phone Status > Battery Meter

feature	
view software version	☎ > Settings > Phone Status > SW Version
view PRL version	☎ > Settings > Phone Status > PRL Version
set auto redial	☎ > Settings > In-Call Setup > Auto Redial > Enable or Disable
set voice privacy	☎ > Settings > In-Call Setup > Voice Privacy > Enable or Disable
define answer option	To set Answer Option: ☎ > Settings > In-Call Setup > Answer Option > Send Key Only or Any Key
set Easy Prefix	To set Easy Prefix: ☎ > Settings > In-Call Setup > Easy Prefix > Auto Change > Off, Add, or Replace or Add

feature	
set IAC String	To set IAC String:  > Settings > In-Call Setup > IAC String
reorder menu	 > Settings > Other Settings > Personalize > Main Menu
redefine left/right soft keys	 > Settings > Other Settings > Personalize > Keys
create a greeting	To enter a greeting message:  > Settings > Other Settings > Personalize > Greeting
create a banner	To create a banner on the standby screen:  > Settings > Other Settings > Personalize > Banner

feature	
set time and date	 > Settings > Other Settings > Initial Setup > Time and Setting
Backlight	 > Settings > Other Settings > Initial Setup > Backlight
Scroll	 > Settings > Other Settings > Initial Setup > Scroll
Animation	 > Settings > Other Settings > Initial Setup > Animation
select a language	To create a banner on the standby screen:  > Settings > Other Settings > Initial Setup > Language
Battery Save	To enable/disable Battery Save:  > Settings > Other Settings > Initial Setup > Battery Save

feature	
Contrast	To adjust Contrast level:  > Settings > Other Settings > Initial Setup > Contrast
set DTMF	To select DTMF length:  > Settings > Other Settings > Initial Setup > DTMF
clear phone data	To clear the entered information in the phone:  > Settings > Other Settings > Initial Setup > Master Clear
phone reset	To restore the phone's default values:  > Settings > Other Settings > Initial Setup > Master Reset

feature	
define NAM setting	To set NAM and enable it:  > Settings > Other Settings > Network > NAM Setting Tip: You are allowed to set two NAM settings.
set Service tone	To set Service Tone :  > Settings > Other Settings > Network > Service Tone > On or Off
set call drop tone	To Set Call Drop Tone :  > Settings > Other Settings > Network > Call Drop Tone > On or Off
select a band	 > Settings > Other Settings > Network > Band Selection

feature	
set Auto Answer	To set Auto Answer when the headset is connected:  > Settings > Other Settings > Headset > Auto Answer
phone lock	To set phone lock  > Settings > Security > Phone Lock > <i>password</i> > <i>lock mode</i>. Two phone lock modes are available: Lock Now and Automatic Lock. You can manually lock your keypad by simply pressing and holding  from the home screen. Or you may press  and .

feature	
changing password	To change the 4-digit password:  > Settings > Security > New Passwords The default password is set to 0000 (four zeros).

more features

feature	
Calculator	☰ > More > Calculator
set Exchange rate	To set exchange currency rate: ☰ > More > Exchange rate
stop watch	To use Stop Watch: ☰ > More > Stop Watch
set Service dial	To set Service Dial: ☰ > More > Service Dial
set Screen Saver	To set Screen Saver: ☰ > More > Screen Saver > Picture or Delay

game

feature	
play a game	To start a game: ☰ > Games > <i>game</i>

alarm clock

feature	
set alarm clock	To set Alarm Clock: ☰ > Alarm Clock > [NewEntry] > set the name and time Tip: When you finish setting, the alarm will be enabled automatically. To disable it, press DISABLE .

service and repairs

If you have questions or need assistance, we're here to help. Go to www.hellomoto.com, where you can select from a number of customer care options. You can also contact the Motorola Customer Support Center at 0 800 666 8676 (Argentina), 800-201-442 (Chile), 01-800-700-1504 (Columbia), 01 800 021 0000 (México), 0800-100-4289 (Venezuela), or Perú (0-800-52-470).

Specific Absorption Rate Data

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

Before a phone model is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does

not exceed the limit established by each government for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) reported to the FCC and available for review by Industry Canada. The highest SAR value for this model phone when tested for use at the ear is 1.38 W/kg, and when worn on the body, as described in this user guide, is 0.72 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and regulatory requirements).²

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

Specific Absorption Rate Data

This model meets international guidelines for exposure to radio waves.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The ICNIRP SAR limit for mobiles devices used by the general public is 2 W/kg and the highest SAR value for this device when tested at the ear was 1.46 W/kg.¹ As mobile devices offer a range of functions, they can be used in other positions, such as on the body as

described in this user guide.² In this case, the highest tested SAR value is 0.58 W/kg.¹

As SAR is measured utilizing the device's highest transmitting power, the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to reach the network.

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.

The World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of

mobile devices. They note that if you want to reduce your exposure then you can do so by limiting the length of calls or using a “hands-free” device to keep the mobile phone away from the head and body.

Additional Information can be found on the websites of the World Health Organization

(<http://www.who.int/emf>) or Motorola, Inc.

(<http://www.motorola.com/rfhealth>).

1. The tests are carried out in accordance with international guidelines for testing. The limit incorporates a substantial margin for safety to give additional protection for the public and to account for any variations in measurements. Additional related information includes the Motorola testing protocol, assessment procedure, and measurement uncertainty range for this product.
2. Please see the *Safety and General Information* section about body worn operation.

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DRAFT

