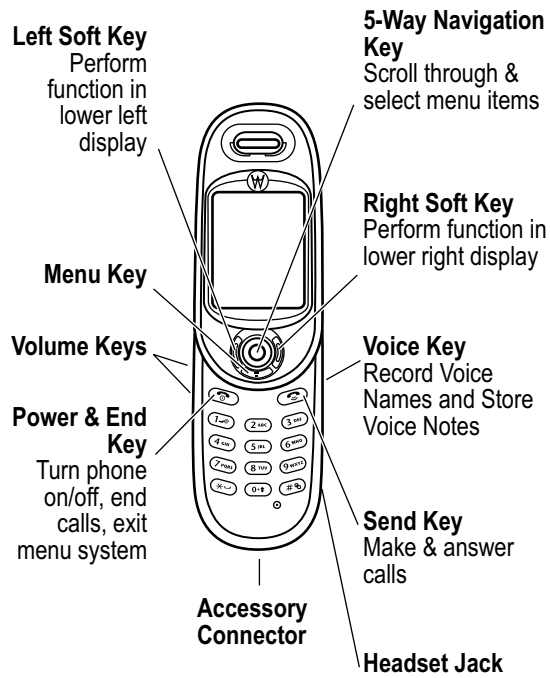


Welcome

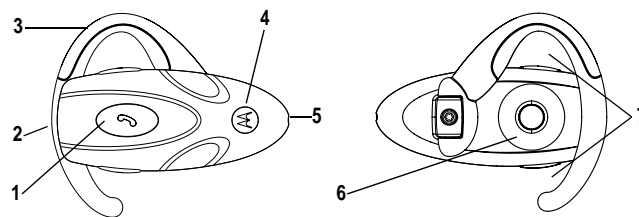
Welcome to the world of Motorola digital wireless communications!
We are pleased that you have chosen the Motorola V80 GSM wireless phone.



Headset Features

Headset (Top View)

Headset (Bottom View)



- 1 Multifunction Button** — Control multiple headset functions.
- 2 Charging Port** — Accepts the plug for your handset battery charger.
- 3 Earhook** — Attaches headset to ear.
- 4 Headset Indicator LED** — Provides a visual cue about headset status.
- 5 Microphone** — Picks up your voice input.
- 6 Speaker** — Plays the sound you receive on the call.
- 7 Volume Control Buttons** — Adjusts speaker volume up or down.

2 - Welcome

www.motorola.com

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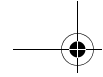
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While Products specifications and features may be subject to change without notice, we are making every possible effort to ensure that user manuals are updated on a regular basis to reflect product functionality revisions. However, in the unlikely event that your manual version does not fully reflect the core functionality of your product, please let us know. You may also be able to access up-to-date versions of our manuals in the consumer section of our Motorola web site, at <http://www.motorola.com>.

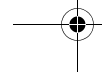
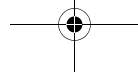
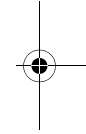
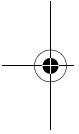
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Safety and General Information

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.

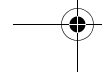
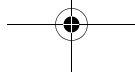
Operational Precautions

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. Unauthorised 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 unauthorised 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 centimetres) from your body when transmitting.

Data Operation

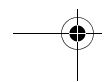
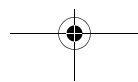
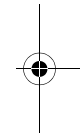
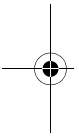
When using any data feature of the phone, with or without an accessory cable, position the phone and its antenna at least 1 inch (2.5 centimetres) from your body.

Approved Accessories

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

RF Energy Interference/Compatibility

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



Facilities

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

Aircraft

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

Medical Devices

Pacemakers

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

Persons with pacemakers should:

- ALWAYS keep the phone more than 6 inches (15 centimetres) from your pacemaker when the phone is turned ON.
- NOT carry the phone in the breast pocket.
- Use the ear opposite the pacemaker to minimise 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 GP 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.

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 fuelling 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.*





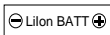
Blasting Caps and Areas

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 jewellery, 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, bag, 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



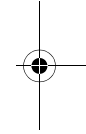
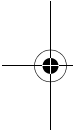
or playing video games. These seizures or blackouts may occur even if a person never had a previous seizure or blackout.

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:

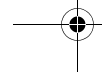
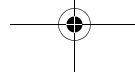
- Do not play or use a blinking-lights feature if you are tired or need sleep.
- Take a minimum of a 15-minute break hourly.
- Play in a room in which all lights are on.
- Play at the farthest distance possible from the screen.



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.



European Union Directives Conformance Statement

Hereby, Motorola declares that this product is in compliance with



- The essential requirements and other relevant provisions of Directive 1999/5/EC
- All other relevant EU Directives

IMEI: 350034/40/394721/9

CE0168

Type: MC2-41H14

Product
Approval
Number

The above gives an example of a typical Product Approval Number.

You can view your product's Declaration of Conformity (DoC) to Directive 1999/5/EC (the R&TTE Directive) at www.motorola.com/rte - to find your DoC, enter the product Approval Number from your product's label in the "Search" bar on the Web site

Getting Started

About This Guide

This guide describes the basic features of your Motorola wireless phone.

To obtain a copy of this guide, see the Motorola Web site at:

<http://hellomoto.com>

Optional Features



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

Optional Accessories

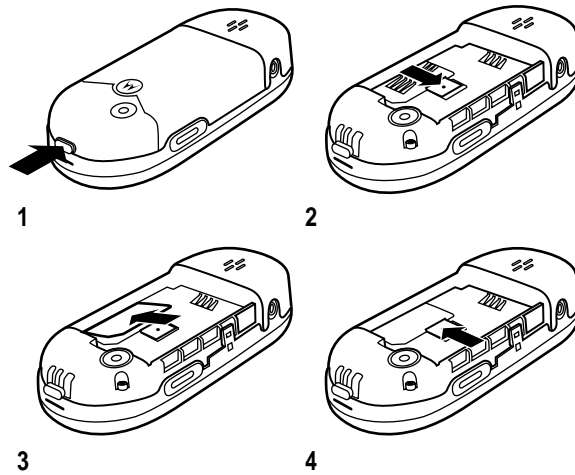


This label identifies a feature that requires an optional Motorola Original™ accessory.

Installing the SIM Card

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

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



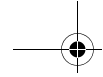
Battery Use

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

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

To maximise 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.

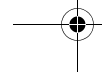
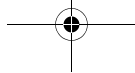
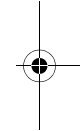
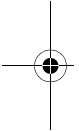


- New batteries or batteries that have been stored for a long time may require a longer charge time.
- Maintain the battery at or near room temperature when charging.
- Do not expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your 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.
- Batteries gradually wear down and require longer charging times. This is normal. If you charge your battery regularly and notice a decrease in talk time or an increase in charging time, then it is probably time to purchase a new battery.



The rechargeable batteries that power this phone must be disposed of properly and may need to be recycled. Refer to your battery's label for battery type. Contact your local recycling centre for proper disposal methods.

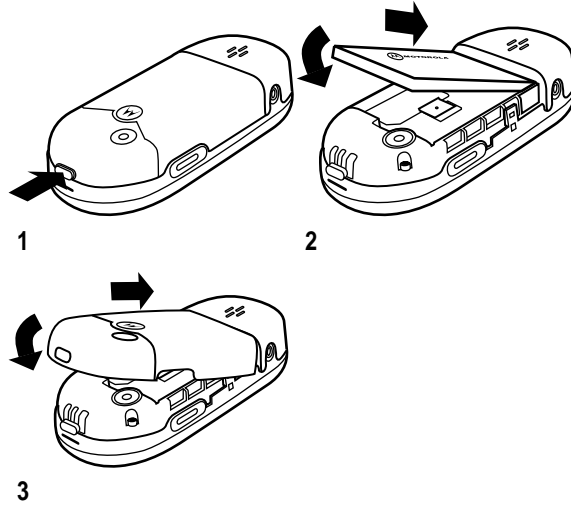
Warning: Never dispose of batteries in a fire because they may explode.



Installing the Battery



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

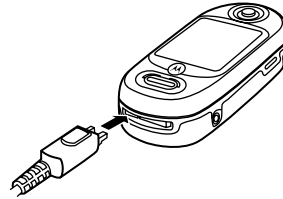


Charging the Battery

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

Action

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



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

Tip: You can safely leave the travel charger connected to your phone after charging is complete. This will not damage the battery.

Charging Your Headset Battery

When to Charge

First-Time Use — Before you can use your headset, charge its self-contained battery for two hours.

Recharging — When you hear five rapid high tones through the headset speaker, repeated at 20-second intervals, the headset battery needs recharging.

Over extended periods of time, batteries gradually wear down and require longer charging times. This is normal. Additionally, your battery will have less standby time the more you talk on the phone with your headset.



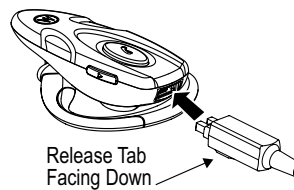
The rechargeable batteries that power your wireless headset must be disposed of properly and may need to be recycled. Contact your local recycling centre for proper disposal methods.

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

How to Charge

Step

- 1** Plug the Motorola charger into the headset, with the charger's release tab facing down and the headset facing up.



- 2** Plug the other end of the charger into an electrical outlet
During charging, the headset indicator turns on and remains on until charging completes. The headset will not work while charging. Your headset fully charges in approximately two hours
- 3** When charging completes (indicator off), remove the charger from the electrical outlet, press the release tab, and detach the charger from the headset

Note: You can also use a Motorola Original Vehicle Power Adapter to charge the headset battery while in your vehicle.

A fully charged headset battery provides approximately:

- 6 hours talk time
- 100 hours standby

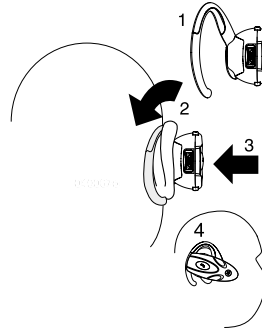
Wearing Your Headset

Placing the Headset on Your Ear

When packaged, the headset is originally set up to wear on the right ear. To place the headset on your ear:

Step

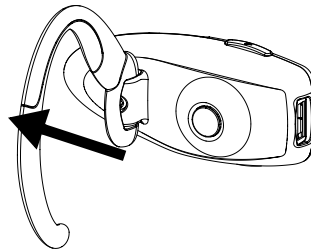
- 1 Open the earhook (45° from the headset).
- 2 Loop the earhook over your ear.
- 3 Press the headset to your ear.
- 4 Point the microphone toward your mouth.



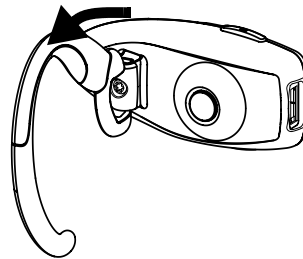
Changing for Wear on the Left Ear

Step

- 1 Open the earhook (90° from the headset).




- 2 Gently lift and pull the top of the earhook up and off the upper hinge pin. Then pull it away to remove it.

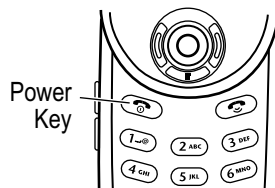



- 3 Flip the headset over.
- 4 Hook the bottom of the earhook onto the lower hinge pin, then lift and pull the top of the earhook over the upper hinge pin.
- 5 To change the volume button orientation, see "Adjusting Headset Volume" on page 34.

Turning Your Phone On


Action

- 1 Open your phone, rotate the flip clockwise.
- 2 Press and hold  for 2 seconds to turn on the phone.



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

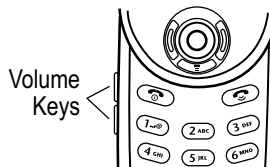
Caution: If you enter an incorrect PIN code 3 times in a row, your SIM card is disabled and your phone displays SIM Blocked.

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

Adjusting Volume

Press the up or down volume keys to:



- increase or decrease earpiece volume during a call
- increase or decrease the ringer volume setting when the home screen is visible



Tip: At the lowest volume setting, press the down volume key once to switch to vibrate alert. Press it again to switch to silent alert. Press the up volume key to cycle back to vibrate alert, then ring alert.

- turn off an incoming call alert


Making a Call

Press	To
1 keypad keys	dial the phone number
2 	make the call
3 	end the call and "hang up" the phone when you are finished




Tip: You can also close the phone to end the call.

Answering a Call



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


When **Open to Answer** is **On**, open the phone to answer the call. To set **Open to Answer**, press  > **Settings** > **In-Call Setup** > **Answer Options** > **Open to Answer**.)

If **Open to Answer** is **Off**:

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

Viewing Your Phone Number

To view your phone number from the home screen, press  .

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

Note: Your phone number must be stored on your SIM card to use this feature. To store your phone number on the SIM card, see page 62. If you do not know your phone number, contact your service provider.



Highlight Features

You can do much more with your phone than make and receive calls! This section describes some of your phone's highlight features.

Taking and Sending a Photo

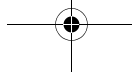
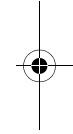
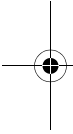
To activate your phone's camera:

Find the Feature



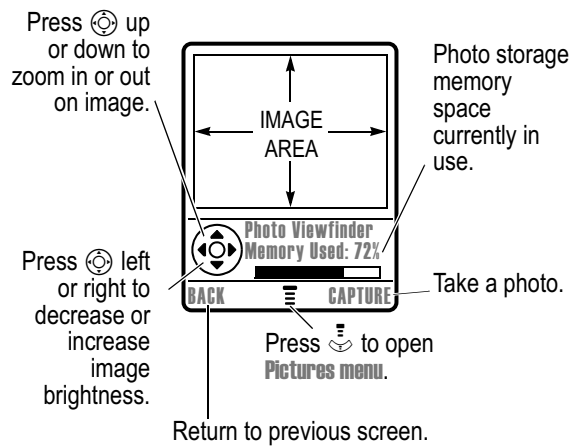
> **Multimedia** > **Camera**

The active viewfinder image appears on your display.



Taking a Photo in the Portrait View

If your phone is all the way open or closed, it displays the portrait view:




Tip: Your phone uses landscape view when it is halfway closed (see page 27).


Point the camera lens at the photo subject, then:

Press	To
1 CAPTURE (📷)	take a photo
2 STORE (📁)	view storage options
	If you choose to store the photo, continue to step 3.
or	
DISCARD (🗑️)	delete the photo and return to active viewfinder

Press

3  up or down

To scroll to **Send in Message, Store Only, Apply as Wallpaper Open, Apply as Wallpaper Closed, Apply as Screen Saver, Apply as Phonebook Entry, or Send to Blog***

4 **SELECT** () perform the storage option of your choice

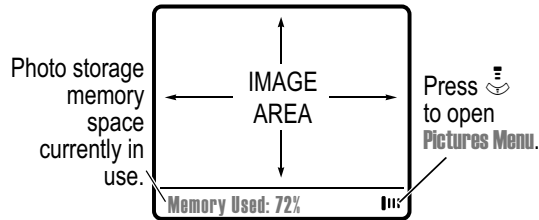
* Optional network/subscription dependent feature. Not all features may be available on your phone.

Press  to open the **Pictures Menu** when the camera is active. The **Pictures Menu** can include the following options:

Option	Description
Go To Pictures	View pictures and photos stored on your phone.
Auto-Timed Capture	Set a timer for the camera to take a photo.
Delete All	Delete all pictures.
Pictures Setup	Open the setup menu to adjust picture settings.
View Free Space	See how much memory remains for storing pictures.

Taking a Photo in the Landscape View

Your phone uses landscape view when it is halfway closed.



Note:

- Press the centre of the 5-way Navigation key (⊙) to take a photo.
- Press ⊙ up or down to zoom in or out on viewfinder image. Press left or right to decrease or increase image brightness.
- The following icons can appear in **landscape view**. Press ⊙ to scroll to an icon, and press the centre (⊙) to select the icon:

🗑 = Discard

📁 = Store

✉ = Send

- In the landscape view, the home screen, status bar, shortcuts, event reminders, and battery save are not available.











Sending a Multimedia Message














A **Multimedia Messaging Service (MMS)** message contains one or more slides with text and embedded media objects (including photos, pictures, animations, sounds, voice records, and/or video clips). You can send the multimedia message to other wireless phone users, and to email addresses.

Find the Feature


 > **Messages > New Message**
> **New Multimedia Msg**

Press	To
1 keypad keys	enter slide text
2 	open the MMS Menu
3  up or down	scroll to Insert
4 SELECT ()	display a list of items you can insert
5  up or down	scroll to Picture, Voice Record, Sound, Video, New Page, Quick Note, or Contact Info.
6 SELECT ()	select the file type
7  up or down	highlight the file you want
8 INSERT ()	insert the file To add another slide to the message, continue. To send the message, go to step 14.
9 	open the MMS Menu to insert a new slide
10  up or down	scroll to Insert
11 SELECT ()	display a list of items you can insert

Press	To
12  up or down	scroll to New Page
13 SELECT 	insert a new slide after the current slide Repeat steps 1 to 8 to enter contents for the new slide.
14 OK 	store the message
15  up or down	scroll to a Send To option: <ul style="list-style-type: none"> • Highlight (One Time Entry) to enter 1 or more phone numbers and/or email addresses. • Highlight (New Phonebook Entry) to enter a number/address and add it to the phonebook. • Or highlight an existing phonebook entry.
16 SELECT 	select (One Time Entry) or (New Phonebook Entry) and enter a number/address
17 DONE 	store the numbers/addresses
18  up or down	scroll to Subject 
19 CHANGE 	select Subject
20 keypad keys	enter the subject
21 OK 	store the subject
22 SEND 	send the message

Receiving a Multimedia Message



When you receive a multimedia message or letter, your phone displays the  (message waiting) indicator and a **New Message** notification, and sounds an alert.

Press

READ ()




To

open the message

Multimedia messages that you receive can contain different media objects:

- Photos, pictures, and animations are displayed as you read the message.
- A sound file or video clip begins playing when its slide is displayed. Use the volume keys to adjust the volume as the sound file or video clip plays.

***Note:** In a multimedia letter, you may have to highlight an indicator in the text to play a sound file or video clip.*

- Attached files are appended to the message. To open the attachment, highlight the file indicator/filename and press **VIEW** () (image file type), **PLAY** () (sound file or video clip), or **OPEN** () (vObject such as phonebook or datebook entry, or unknown file type).



Playing Video Clips

You can download video clips with the micro-browser, and send and receive video clips in multimedia messages.

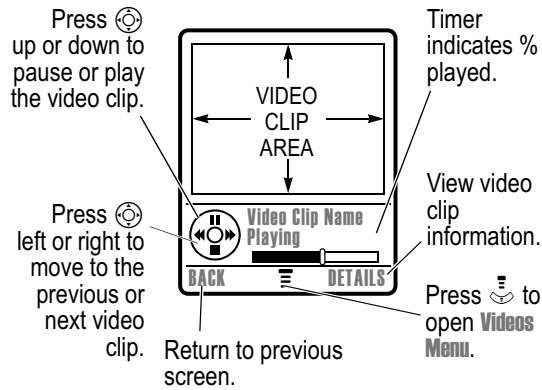
To play a video clip stored on your phone:

Find the Feature

 > **Multimedia** > **Videos**

Press	To
1  up or down	scroll to the video clip
2 PLAY ()	start video clip playback



The video clip displays in the video clip playback screen.

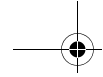


Using Ring Lights

Set up your phone to display a light pattern (in addition to or instead of a ring/vibrate alert) when you receive an incoming call. To select a light pattern:

Find the Feature  > **Settings** > **Ring Styles**
> **Ring Lights**

Press	To
1  up or down	scroll to the light pattern
2 SELECT ()	select the light pattern



The same light pattern displays for all incoming calls. You can use the light ID feature to display a distinctive light pattern when you receive calls from phonebook entries in a specific category. To set a light ID for a phonebook category, see page 86. The light ID is not displayed when ring lights are turned off.

Using Event Lights


When event lights are activated, your phone displays a light pattern to notify you of the following events: incoming calls from specific phonebook categories, incoming text and voicemail messages, alarms, power up, power down, battery charging, Bluetooth connect, Bluetooth activity, and Bluetooth disconnect.

To turn event lights on or off:

Find the Feature

 > **Settings** > **Ring Styles**
> **Event Lights**

Press

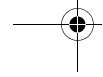
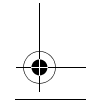
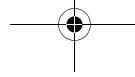
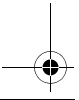
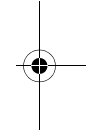
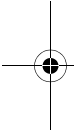
1  up or down

To

scroll to **On** or **Off**

2 **SELECT** ()

select the option



Bluetooth

Your phone supports Bluetooth® wireless connections. You can set up a wireless link with a Bluetooth-enabled headset accessory, speakerphone, or handsfree car kit, or connect to a computer or hand-held device to exchange and synchronise data.

Pairing Your Headset and Phone

Note: You must pair your headset and phone before you can make a call.

“Pairing” creates a link between devices with *Bluetooth* wireless technology, and allows the phone to remember the headset’s unique ID. When your headset and phone are paired, your headset automatically connects to your phone.

Pairing

With the headset and phone close together:

Action

- 1 With the headset off, hold the Multifunction Button until the LED remains on (about 5 seconds).
- 2 Perform a device discovery from the phone. For Motorola phones, perform device discovery by selecting these menu options:

Setting > Connections > Bluetooth Link > Hands Free > Look for Devices

When the scan is complete, the phone displays the devices found.

Action

- | | |
|--|---|
| 3 Select the Motorola HS820 from the discovered devices list and confirm following the on screen prompts. | |
| 4 When prompted by the phone, enter the passkey 0000 and confirm to pair the headset with the phone. | The device ID is now stored in the phone's memory.
Pairing is successful when the headset indicator flashes rapidly. |

Pairing to Additional Devices

Your headset can store pairing information for up to eight different devices with *Bluetooth* wireless technology. Devices are stored in a "Paired Device List" in memory in the order entered. When an attempt to pair to more than eight devices is made, the oldest paired device is removed from the list.

Any of the eight paired devices can initiate a connection to the headset.

The headset will only automatically initiate a connection (upon power-up) with the *last* device it was *connected to*. If you want to connect the headset to another device in the paired device list, you must initiate the connection from that device. Whichever of the eight devices initiates a connection to the headset afterwards, that device then becomes the "last connected" device.

Adjusting Headset Volume

Increasing or Decreasing Volume

To increase speaker volume, press the top volume button repeatedly until you reach the desired volume level.

To decrease speaker volume, press the bottom volume button repeatedly until you reach the desired volume level.

Volume Orientation Technology

To change the volume button orientation for left or right ear:

Action

With the headset off, press the Multifunction button and desired volume button to assign as "volume up" until the LED flashes 2 times and the headset powers up.

Making and Receiving Calls

Your headset supports both Handsfree and Headset Profiles. Accessing call functions depends on which profile your phone supports.

Note: *Some phones do not support all features listed. See your phone's user's guide.*

You can activate call functions for the Handsfree profile according to the following table:

Function	Device Status		Action
	Phone	Headset	Handsfree Profile
Enter Pairing (Configuration) Mode	On	Off	Press & hold MFB until LED remains lit. Headset can be discovered by another Bluetooth device.
Make a Voice Dial Call	On in idle	On	Short press MFB, speak name, phone dials call
Redial a number	On-voice dialling turned on or off	On-(idle)	Long press MFB
End a Call	On-in call	On	Short press MFB

Function	Device Status		Action
	Phone	Headset	Handsfree Profile
Put Active Call On Hold	On-in call	On	Long press MFB
Receive a Call	On-phone rings	On	Short press MFB (call is answered)
Reject a Call	On-phone rings	On	Long press MFB
Answer 2nd incoming call	On-in call, 2nd call coming in	On	Long press MFB, places 1st call on hold, answers incoming call
Toggle between Two Active Calls	On-in call, 2nd call on hold	On	Long press MFB
Transfer Call From Phone to Headset	On-in call	On	Short press MFB, (call transferred to headset)

Note: If the link abnormally disconnects (for example, out of range) the headset tries to reestablish the link.

Using Your Headset Indicator LED

With charger plugged in:

Headset Indicator	Status
ON	charging in progress
OFF	charging complete

With no charger plugged in:

Headset Indicator	Status
OFF	power off
ON (steady)	pairing mode
10 rapid flashes	pairing successful
Flashes at a 3-second interval (.1 second ON, 2.9 seconds OFF)	standby (not on a call)
Pulses at an 8-second interval (2.0 seconds ON, 6.0 seconds OFF)	connected (on a call)

Note: When the wireless headset is paired to the phone and there is no activity for 5 minutes, the blue flashing LED turns off. Any button press on the headset, resets the timer, and the flashing resumes. If you press the up and down volume buttons at the same time during a call, the pulsing LED turns off for the duration of that call.

Audio Tones

Audio Tone	Headset Status
Single high tone when pressing volume button	volume maximum or minimum reached
Five rapid high tones, repeated every 20 seconds	low battery
No audio indications; deteriorating audio quality	out of range

Audio Tone	Headset Status
Series of 4 tones, low to high	audio link open (Headset mode), active call (hands free mode)
Ring tone	incoming call
Single high tone	pairing confirmation
Single low tone	initiate voice activation
Dual high/low tone	voice tag not recognised
Single high tone	end call
Series of 4 tones, high to low	audio link closed (Headset mode), call ended (hands free mode)
Fast high/low tone every 5 seconds (max. & min. volume confirm beep)	no network/service
No tone	power ON/OFF

Using a Bluetooth Wireless Connection


To connect your phone to a headset accessory or handsfree device:

- Find the Feature**
- > Settings > Connection
 - > Bluetooth Link > Handsfree
 - > (Look For Devices)

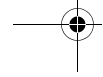
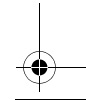
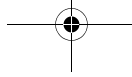
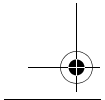
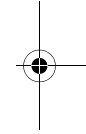
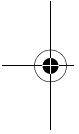
Your phone displays a list of device(s) located within range of the phone. If your phone is already connected to a device, your phone lists the connected device and identifies it with a ✓ (in use) indicator.

To connect to a device, highlight the device name and press **SELECT** (⏏).



The device may request permission to bond with your phone. Select **YES** (Ⓜ) and enter the correct PIN code to create a secure connection with the device. When the connection is made, the  (Bluetooth) indicator or a Bluetooth message displays in the home screen.

Note: To turn Bluetooth On or Off, press  > **Settings** > **Connection** > **Bluetooth Link** > **Setup** > **Setup** > **Power** > **On**.



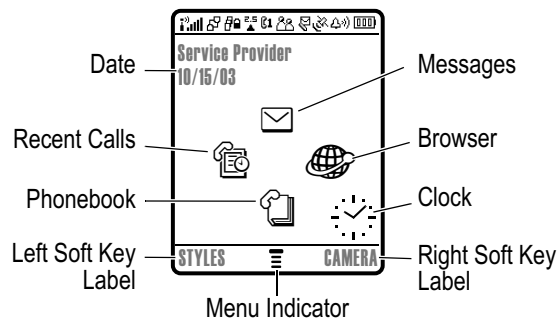
Learning to Use Your Phone

See page 1 for a basic phone diagram.

Using the Display



The **home screen** is displayed when you are **not** on a call or using the menu. You must be in the home screen to dial a phone number.



Note: Your phone display works differently when it is halfway closed. For details, see page 57.



Press the 5-way navigation key (⊙) left, right, up, or down to select one of the menu feature icons. If you select a menu icon by mistake, press (⏪) to return to the home screen.

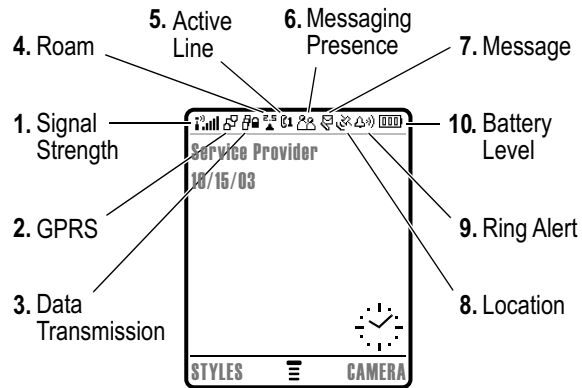
Note: Your home screen may look different from the display shown above. For example, your service provider may hide the menu feature icons to allow a better view of the wallpaper image. You can still select the menu icons when they are hidden from view. To show or hide the menu icons, see page 88.

The  (menu) indicator indicates that you can press the menu key () to enter the main menu.



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.

Your phone can display an analogue or digital clock in the home screen (see page 87).

The following status indicators can display:



1. Signal Strength Indicator


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




2. GPRS Indicator




Shows that your phone is using a high-speed General Packet Radio Service (GPRS) network connection. GPRS allows faster data transfer speeds. Indicators can include:


 = GPRS PDP context active


 = GPRS packet data available


3. Data Transmission Indicator


Shows connection and data transmission status. Indicators can include:


 = secure packet data transfer


 = unsecure packet data transfer

 = secure application connection

 = unsecure application connection

 = secure Circuit Switch Data (CSD) call


 = unsecure CSD call

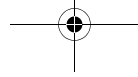
 = Bluetooth connection

4. Roam Indicator





Shows when your phone is seeking or using another network outside your home network. Indicators can include:



 = roaming



5. Active Line Indicator









Shows  or  to indicate the current active phone line. Other indicators can include:


 = line 1 active, call divert on  = line 2 active, call divert on

6. Messaging Presence Indicator



Shows when Instant Messaging (IM) is active. Indicators can include:

 = IM active  = available for IM
 = busy  = invisible to IM
 = available for phone calls  = offline

When a Java application is active, a  (Java midlet) indicator can display in this location.

7. Message Indicator



Displays when you receive a new message. Indicators can include:

 = text message  = voicemail message
 = voicemail and text message  = IM message
 = active chat session



When you enter a message, a number in this location shows the number of characters left on the current page (text message), or the message size (multimedia message or letter).

8. Location Indicator




Your phone may be able to send location information to the network during an emergency call. Indicators show when your phone is sending location information:


 = location on

 = location off


9. Ring Style Indicator


Shows the ring style setting.

 = loud ring

 = soft ring

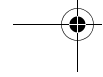
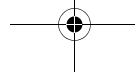
 = vibrate

 = vibrate and ring

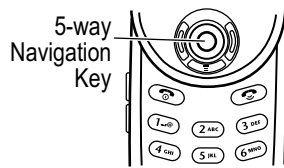
 = silent

10. Battery Level Indicator

Vertical bars show the battery charge level. Recharge the battery when **Low Battery** displays and the battery alert sounds.




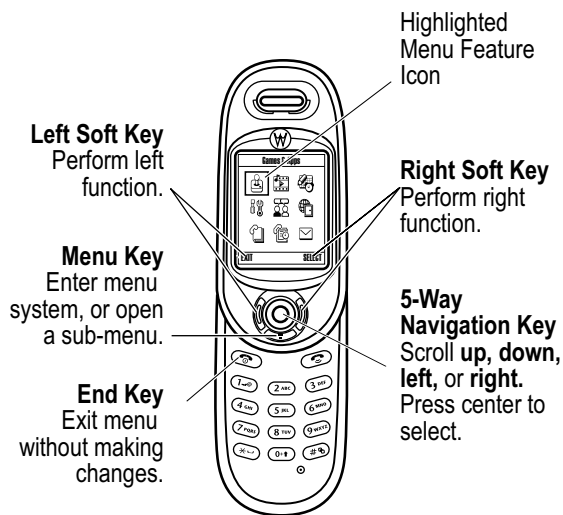
Using the 5-Way Navigation Key














Use the 5-way navigation key (⤿) to scroll up, down, left, or right in the menu system. Press the centre of the key (●) to select a highlighted menu item.

Using Menus

From the home screen, press  to enter the main menu.






Press  to scroll to and highlight a menu feature icon in the main menu. The following icons represent features that may appear in the main menu, depending on your service provider and service subscription options.

Icon	Feature	Icon	Feature
	Games & Apps		Multimedia
	Office Tools		Settings
	IM		Web Access
	Phonebook		Recent Calls
	Messages		Chat

Selecting a Menu Feature

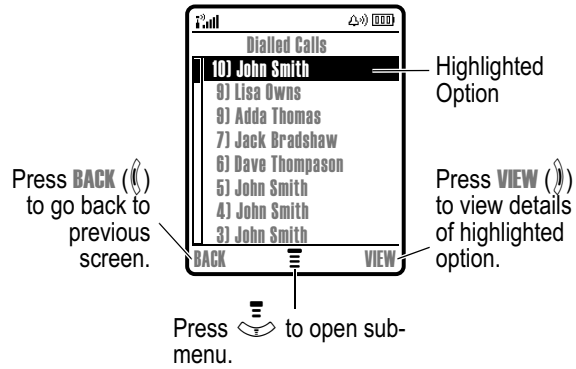
To select a menu feature, starting from the home screen:

Find the Feature  > Recent Calls > Dialed Calls

This example shows that from the home screen, you must press , scroll to and select  Recent Calls from the main menu, then scroll to and select **Dialed Calls**. Press  to scroll to and select items. Press the left/right soft keys to select the functions listed in the bottom left and right corners of the display.

Selecting a Feature Option

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



Press **⬆** to scroll up or down to highlight the option you want.

In a numbered list, press a number key to highlight the option.

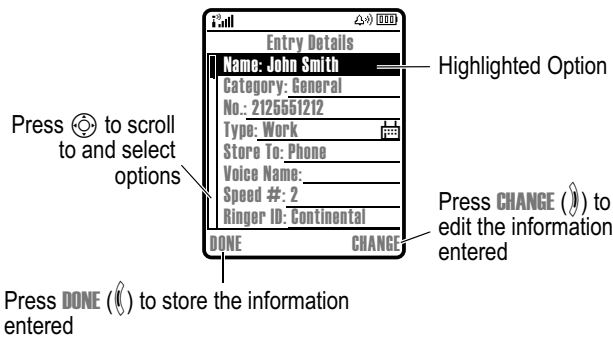
In an alphabetised list, press a key repeatedly to cycle through the letters on the key and highlight the closest matching list option.

When an option has a list of possible values, press **⬅** left or right to scroll through and select a value.

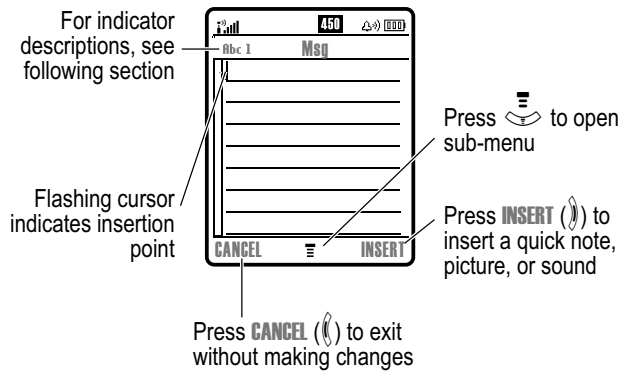
When an option has a list of possible numeric values, press a number key to set the value.

Entering Text

Some features require you to enter information.




The message centre lets you compose and send text messages.



Choosing a Text Entry Method


Multiple text entry methods make it easy for you to enter names, numbers, and messages. The method you select remains active until you select another method.

Press  in any text entry screen to select 1 of the following entry methods:

- | | |
|------------------|---|
| Primary | The primary text entry method (see below to set). |
| Numeric | Enter numbers only (see page 55). |
| Symbol | Enter symbols only (see page 55). |
| Secondary | The secondary text entry method (see below to set). |


Alternatively, you can select a text entry method in any text entry screen by pressing  > **Entry Mode**.

Setting Up a Text Entry Method

Press  > **Entry Setup** from any text entry screen. Select **Primary Setup** or **Secondary Setup**, and choose:

- | | |
|---------------------|--|
| iTAP | Let the phone predict each word as you press keys (see page 53). |
| Tap | Enter letters and numbers by pressing a key 1 or more times. |
| Tap Extended | Enter letters, numbers, and symbols by pressing a key 1 or more times. |
| None | Hide the Secondary setting (only available for Secondary Setup). |













Using Capitalisation

Press  in any text entry screen to change text case. The following indicators show capitalisation status:



-  = no capital letters
-  = all capital letters
-  = capitalise next letter only

Text Entry Method Indicators

When you select the **Primary** or **Secondary** text entry method, the following indicators identify the text entry setting:

Primary	Second.	
		Tap, no capital letters
		Tap, capitalise next letter only
		Tap, all capital letters
		iTAP, no capital letters
		iTAP, capitalise next letter only
		iTAP, all capital letters




The following indicators identify Numeric or Symbol entry method:


-  = numeric method
-  = symbol method

Using Tap Method

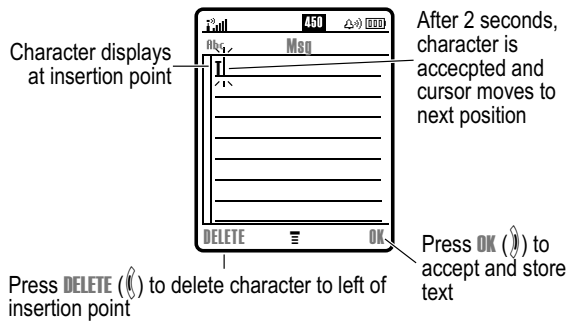
This is the standard method for entering text on your phone.

Regular Tap method cycles through the letters and number of the key you press. Tap Extended method also cycles through additional symbols as shown in the chart on page 52.

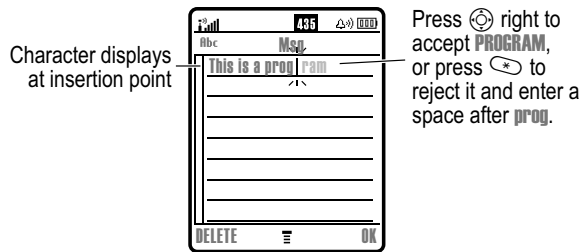
Press	To
1 A keypad key 1 or more times	select a letter, number, or symbol
2 keypad keys	enter remaining characters. Tip: Press  right to accept a word completion, or  to insert a space.
3 OK ()	store the text

In a text entry screen, you can press  to switch entry methods. If **Tap** or **Tap Extended** is not available as the **Primary** or **Secondary** entry method, see page 49.

When you enter text with **Tap** or **Tap Extended** method, the soft key functions change.



When you enter 3 or more characters in a row, your phone may guess the rest of the word. For example, if you enter **prog** you might see:







If you want a different word (such as **progress**), continue pressing keypad keys to enter the remaining characters.

Character Chart




Use this chart as a guide for entering characters with **Tap Extended** method.

	. 1 ? ! , @ _ & ~ : ; " - () ' ; i % £ \$ ¥ ¤ + x * / \ [] = > < # \$
	a b c 2 ä å ä å ä å ç
	d e f 3 é è è è ê f
	g h i 4 î ï î
	j k l 5
	m n o 6 ñ ö ø ó ô õ ö
	p q r s 7 ß
	t u v 8 ü ú û û
	w x y z 9

	change text case, for capital letters
	enter a space (hold to enter a return)
	change text entry method (hold for default)

Note: This chart may not reflect the exact character set available on your phone. In an email address or URL editor,  first shows common characters for that editor.

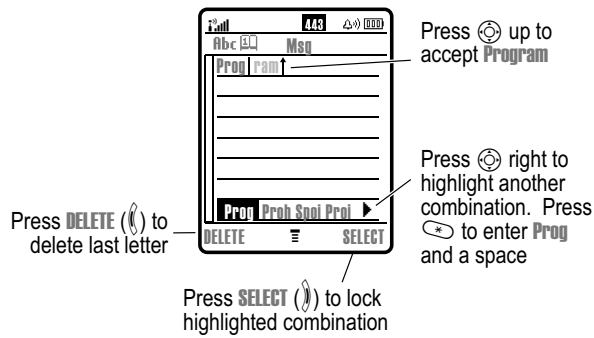
Tap Method Text Entry Rules

- Press a keypad key repeatedly to cycle through its characters.
- 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 capitalised. If necessary, press  down to force the character to lowercase before the cursor moves to the next position.
- If you enter or edit information and do not want to save the changes, press  to exit without saving.

Using iTAP™ Method

iTAP™ software provides a predictive text entry method that lets you enter a word using 1 keypress per letter. This can be faster than **Tap** method, because your phone combines the keypresses into common words.

For example, if you press **7** **7** **6** **4**, letter combinations that match your keypresses display:



If you want a different word (such as **Progress**), continue pressing keypad keys to enter the remaining characters.

Entering Words

In a text entry screen, you can press ***** to switch entry methods. An indicator tells you which method is active (see page 50). If **ITAP** method is not available as the **Primary** or **Secondary** entry method, see page 49.

Press	To
1 keypad keys (1 press per letter)	show possible letter combinations at the bottom of the display
2 ⬆ left or right	highlight the combination you want

Press

3 SELECT (j)

To

lock a highlighted combination

You can press keypad keys to add more letters to the end of the combination.

or



enter the highlighted combination when it spells a word

A space is automatically inserted after the word.

If you enter a word your phone does not recognise, the phone stores it to use as 1 of your word options. When you fill memory space for unrecognised words, your phone deletes the oldest words to add new words.

Using Numeric Method

In a text entry screen, press (*) to switch entry methods until the 123 (numeric) indicator displays.

Press keypad keys to enter the numbers you want. When you finish entering numbers, press (*) to switch to another entry method.

Using Symbol Method

In a text entry screen, press (*) to switch entry methods until the @ (symbol) indicator displays.

Press

1 keypad keys (1 press per symbol)

To

show possible symbol combinations at the bottom of the display

2 (left or right)

highlight the combination you want

Press
3 SELECT ()

To
 lock a highlighted combination
 You can press keypad keys to add more symbols to the end of the combination.

or



enter the highlighted combination

Symbol Chart

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

	. ? ! , @ _ & ~ : ; " - () ' ` i % £ \$ ¥ ¢
	@ _ \
	/ : ;
	" & '
	() [] { }
	¿ ¡ ~
	< > =
	\$ £ ¥ ¢
	# % *
	+ - x * / = > < # §
	enter a space (hold to enter a return)
	change text entry method (hold for default)

Note: This chart may not reflect the exact character set available on your phone. In an email address or URL editor, first shows common characters for that editor.

Deleting Letters and Words

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

Action

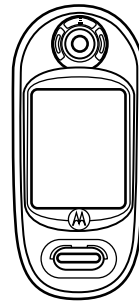
Press **DELETE** (⌫) to delete 1 letter at a time.

Hold **DELETE** (⌫) to delete the entire message.

Using the External Display

When your phone is closed, you can still use it by pressing the keys on the outside. The closed display functions the same as the open display (see page 40).

Note: *When your phone is closed, press and hold **UNLOCK** (⌫), then press **OK** (⏹) to unlock your keys. You cannot make or receive calls when the phone is closed unless you attach a headset.*



When you close your phone, it can stop halfway. If you leave it there, the camera viewfinder displays a landscape view. To take a picture, see page 24.

When you open your phone, it does not stop halfway.

Note: *You cannot make or receive calls when your phone is halfway closed. In the landscape view, the home screen, status bar, shortcuts, event reminders, and battery save are not available.*

Changing a Code, PIN, 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 codes before you receive your phone.

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

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

To change a code or password:

Find the Feature

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

Locking and Unlocking Your Phone

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

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

You can make emergency calls on your phone even when it is locked (see page 71).


Locking Your Phone Manually

Find the Feature

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

Press

To

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

Unlocking Your Phone

Your phone's unlock code is originally set to 1234. Many service providers reset the unlock code to the last 4 digits of your phone number.

At the **Enter Unlock Code** prompt:

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

If You Forget a Code, PIN, 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. Many service providers reset the unlock code to the last 4 digits of your phone number before you receive your phone.

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


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

If you forget your security code, SIM card PIN code, PIN2 code, or call barring password, contact your service provider.

Using the Phonebook



This section briefly describes basic phonebook operations. For more information about using the phonebook, see page 85.

Storing a Phone Number

Enter a phone number in the home screen, then press **STORE** () to create a phonebook entry with that number. Fill in the other fields to complete the entry.

Select **MORE** to store another number (for example, a work number) under the same Name.

Recording a Voice Name

When creating a phonebook entry, scroll to **Voice Name** and press **RECORD** (). Press and release the voice key and say the entry's name (within 2 seconds). When prompted, press and release the voice key and repeat the name. Press **DONE** () to store the voice name.

Note: *This option is not available for entries stored on the SIM card.*



Dialling a Number

Press  > **Phonebook** > entry to call.

Voice Dialling a Number



Press and release the voice key, and say the entry's name (within 2 seconds).

Sorting Phonebook Entries

Press  > **Phonebook**, press  > **Setup** > **Sort by**, then select whether you want to sort the phonebook list by **Name**, **Speed No.**, **Voice Name**, or **Email**.

When sorting by name, you can view **All** numbers or just the **Primary** number for each name. To set the primary number for a name, see page 86.




Viewing Entries By Category

Press  > **Phonebook**, press  > **Categories**, then select whether you want to view **All** entries, entries in a predefined category (**Business**, **Personal**, **General**, **VIPs**), or entries in a category you created.

To set the category for a phonebook entry, see page 86.

Setting Picture ID View

Press  > **Phonebook**, press  > **Setup** > **View by** > **Picture**.

To store a picture when you create a phonebook entry, scroll to **Picture** and press **CHANGE** (). Press  to select a picture, and press **SELECT** () to store it for the entry. This option is not available for entries stored on the SIM card.

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**

Shortcut: Press   from the home screen to edit your name and phone number.

If you do not know your phone number, contact your service provider.

Setting the Time and Date

Your phone uses the time and date for the **Datebook**. Your phone can synchronise its time and date with the network:

Find the Feature

 > **Settings > Initial Setup**
> **Time and Date > Autoupdate**
> **On**

To set the time and date manually, set **Autoupdate** to **off** and use the **Time** and **Date** options:

Find the Feature

 > **Settings > Initial Setup**
> **Time and Date**
> **Time or Date**



Setting a Ring Style


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

You can select 1 of 5 different ring styles. The ring style indicator in the display shows the current ring style (see page 44).

To set a ring style:

Find the Feature  > **Settings > Ring Styles > Style**

Press	To
1  up or down	scroll to the ring style
2 SELECT ()	select the ring style

Each ring style contains settings for specific event alerts, ringer ID, and ringer and keypad volume. To change these settings, press  > **Settings > Ring Styles > style Detail**.





Setting Answer Options

You can use additional, alternative methods to answer an incoming call.

Multi-Key	answer by pressing any key
Open to Answer	answer by opening the phone

To activate or deactivate an answer option:

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

Press	To
1  up or down	scroll to Multi-Key or Open to Answer
2 CHANGE ()	select the option
3  up or down	scroll to On or Off
4 SELECT ()	confirm the setting

Activating Rhythm Lights




Rhythm lights make your phone's display and keys flash in beat with music or noise around you. You can activate rhythm lights for up to 10 minutes.

Find the Feature  > **Settings** > **Personalise**
> **Rhythm Lights**

Setting	Description
Pattern	choose a light pattern to activate Rhythm Lights , or turn the lights Off
Timer	set how many minutes Rhythm Lights will stay active (up to 10 minutes)
Sensitivity	set how loud the music has to be before Rhythm Lights respond (1 to 7)

Notes:

- *Rhythm Lights only work when your phone is idle and your battery is not low. Rhythm Lights pause if you press a key or receive a call or message.*
- *Your phone can also flash for incoming calls and messages. Some games might make your phone flash and vibrate.*

Tip: To create a shortcut to the **Rhythm Lights** feature, press  > **Settings** > **Personalise**, scroll to **Rhythm Lights**, and hold the . Your phone prompts you to save the shortcut. To use a shortcut, press  > **Shortcuts** in the home screen.

Setting a Wallpaper Image

You can set a photo, picture, or animation as a wallpaper (background) image in your phone's home screen. The wallpaper image appears as a faint watermark in text and menu displays.







You can set a **Wallpaper Open** image for when your phone is open, and a **Wallpaper Closed** image for when it is closed.

Find the Feature

 > **Settings** > **Personalise**
> **Wallpaper Open** or
Wallpaper Closed

Press

To

- | | |
|---|---|
| 1  up or down | scroll to Picture |
| 2 CHANGE () | open the picture viewer |
| 3  up or down | scroll to a picture/animation
Scroll to (None) to turn off the wallpaper image. |
| 4 SELECT () | select the image |
| 5  up or down | scroll to Layout |
| 6 CHANGE () | adjust the image layout |

Press

7 up or down

To

scroll to **Centre**, **Tile**, or **Fit-to-screen**

Centre places the image in the centre of the display.

Tile fills the display with adjacent copies of the image.

Fit-to-screen resizes the image, if necessary, to fit the display.

8 **SELECT** ()

confirm the layout setting

9 **BACK** ()

save wallpaper settings

Setting a Screen Saver Image

Set a photo, picture, or animation as a screen saver image.

The screen saver image displays when the phone is on and no activity is detected for a specified time period. The image shrinks to fill the display, if necessary. An animation repeats for 1 minute, then the first frame of the animation displays.

Turn off the screen saver to extend battery life.

Find the Feature

> **Settings > Personalise > Screen Saver**

Press

1 up or down

To

scroll to **Picture**

2 **CHANGE** ()

open the picture viewer






3 up or down

scroll to a picture/animation

Scroll to **(None)** to turn off the screen saver image.

4 **SELECT** ()



select the image

Press	To
5  up or down	scroll to Delay
6 CHANGE 	set the delay interval
7  up or down	scroll to the inactivity interval that triggers the screen saver
8 SELECT 	confirm the delay setting
9 BACK 	save screen saver settings

Setting Rotation Sound

Set a sound to play when you open or close your phone.

Find the Feature  > **Settings > Personalise**
> **Rotation Sound**

Press	To
1  up or down	scroll to a sound
2 SELECT 	select the sound to play

Setting Rotation Animation

When you rotate your phone open or closed, an animation displays. You can turn this animation **Off**.

Find the Feature  > **Settings > Personalise**
> **Rotation Animation**

Setting Display Brightness

Find the Feature  > **Settings > Initial Setup**
> **Brightness**



Setting Display Colour

Select the colour palette that your phone uses to display indicators, highlights, and soft key labels.

Find the Feature



> **Settings > Personalise**
> **Colour Style**

Adjusting the Backlight

Set the amount of time that the display and keypad backlights remain on.

Find the Feature



> **Settings > Initial Setup**
> **Backlight**

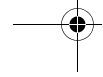
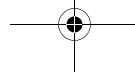
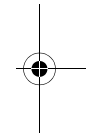
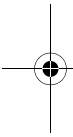
Setting Display Timeout

Set the display to turn itself off when no activity is detected for a specified time period.

Find the Feature



> **Settings > Initial Setup**
> **Display Timeout**



Calling Features

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

Changing the Active Line



Change the active phone line to make and receive calls from your other phone number.

Note: This feature is available only for dual-line-enabled SIM cards.

Find the Feature



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

The active line indicator in the display shows the currently active phone line (see page 43).

Redialling a Number

Press	To
1	view the dialled calls list
2 up or down	scroll to the entry you want to call
3	redial the number

Using Automatic Redial



When you receive a busy signal, your phone displays **Call Failed, Number Busy**.

To redial the phone number:

Press



To

activate automatic redial

Your phone automatically redials the number. When the call goes through, your phone rings or vibrates 1 time, displays **Redial Successful**, and then connects the call.

Using Caller ID

Incoming Calls



Calling line identification (Caller ID) displays the phone number for incoming calls in your phone's display.

The phone displays the caller's name (and picture, if available) when the name is stored in your phonebook, or

Incoming Call when caller ID information is not available.

You can also set your phone to play a distinctive ringer ID and/or light ID for specific entries stored in your phonebook. For more information, see page 85.

Outgoing Calls




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

Find the Feature

 **> Settings > In-Call Setup
> My Caller ID**

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

Press	To
 > Hide ID/Show ID	hide or show your caller ID for the next call

Canceling an Incoming Call

While the phone is ringing or vibrating:

Press	To
IGNORE (ⓞ)	cancel the incoming call



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

Turning Off a Call Alert


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

Press	To
either volume key	turn off the alert


Calling an Emergency Number

Your service provider programmes 1 or more emergency phone numbers, such as 999, that you can call under any circumstances, even when your phone is locked or the SIM card is not inserted.

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


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

Dialling International Numbers






Press and hold  to insert the local international access code (+) for the country from which you are calling.


Viewing Recent Calls

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

Shortcut: Press  from the home screen to view the dialled calls list.

Find the Feature  > **Recent Calls**

Press	To
1  up or down	scroll to Received Calls or Dialled Calls
2 SELECT 	select the list
3  up or down	scroll to an entry ✓ means the call connected.
4  or	call the entry's number Press and hold  for 2 seconds to send the number as DTMF tones during a call.

Press
VIEW (3)
or


To
 view entry details


open the **Last Calls Menu** to perform various operations on the entry




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

Option	Description
Store	Create a phonebook entry with the number in the No. field.
Delete	Delete the entry.
Delete All	Delete all entries in the list.
Hide ID/Show ID	Hide or show your caller ID for the next call.
Send Message	Open a new text message with the number in the To field.
Add Digits	Add digits after the number.
Attach Number	Attach a number from the phonebook or recent calls lists.
Send Tones	Send the number to the network as DTMF tones. This option displays only during a call.
Talk then Fax	Talk and then send a fax in the same call (see page 92).

Returning an Unanswered Call

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




- the  (missed call) indicator
- **X Missed Calls**, where **X** is the number of missed calls

Press	To
1 VIEW 	see the received calls list
2  up or down	select a call to return
3 	make the call

Using the Notepad


The most recent set of digits entered on the keypad are stored in your phone's notepad memory. This can be a phone number that you called, or a number that you entered but did not call. To retrieve the number stored in the notepad:

Find the Feature  > **Recent Calls** > **Notepad**

Press	To
	call the number
or	
	open the Dialling Menu to attach a number or insert a special character
or	
STORE 	create a phonebook entry with the number in the No. field



Attaching a Number

While dialling (with digits visible in the display):



Press	To
 > Attach Number	attach a number from the phonebook or recent calls lists

Calling With Speed Dial

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

To see an entry's speed dial number, press  > **Phonebook**, scroll to the entry, press **VIEW** ().

To speed dial a phonebook entry:

Press	To
1 keypad keys	enter the speed dial number for the entry you want to call
2 	submit the number
3 	call the entry

Calling With 1-Touch Dial

To call phonebook entries 1 to 9, press and hold the single-digit speed dial number for 1 second.

Tip: You must specify which phone number list you want to use with this feature: phone memory phonebook or SIM card phonebook (see page 87).

Using Voicemail

Voicemail messages that you receive are stored on the network. To listen to your messages, you must call your voicemail phone number.


Your service provider may include additional information about using this feature.

Listening to Voicemail Messages

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

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

Receiving a Voicemail Message


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

Press	To
CALL ()	listen to the message

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

Storing Your Voicemail Number

If necessary, use the following procedure to store your voicemail phone number on your phone. 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 (j)	store the number



You cannot store a **p** (pause), **w** (wait), or **n** (number) character in this number. If you want to store a 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 the **More Here** guide.

Using Call Waiting




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

Press	To
1 	answer the new call
2 SWITCH (j)	switch between calls
or	
LINK (k)	connect the 2 calls
or	
 > End Call On Hold	end the call on hold

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

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

Putting a Call On Hold

Press	To
HOLD (⏸) (if available)	put the call on hold
or	
 > Hold	




Transferring a Call



You can announce that you are transferring an active call to another party, or you can directly transfer the call.

Announce the Call Transfer

Find the Feature  > **Hold**

Press	To
1 keypad keys	dial the number where you are transferring the call
2 	call the number and speak to the person who answers
3 	open the menu
4  up or down	scroll to Transfer
5 SELECT (⏹)	select Transfer
6 OK (⏹)	confirm the transfer



Do Not Announce the Call Transfer

Find the Feature  > **Transfer**

Press

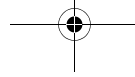
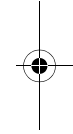
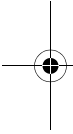
1 keypad keys

To

dial the number where you are transferring the call

2 







transfer the call







Phone Features

Menu Map

Main Menu

-  **Games & Apps**
-  **Multimedia**
 - Themes
 - Camera
 - Pictures
 - Sounds
 - MotoMixer
 - Videos
-  **Tools**
 - SIM Apps
 - Calculator
 - Datebook
 - Shortcuts
 - Voice Records
 - Alarm Clock
 - Dialling Services
 - Fixed Dial
 - Service Dial
 - Quick Dial
-  **Settings**
 - (see next page)
-  **IM**
 - Log In
 - Offline Convs
 - Offline Settings
 - Help
-  **Web Access**
 - Browser
 - Web Shortcuts
 - Stored Pages
 - History
 - Go To URL
 - Browser Setup
 - Web Sessions

-  **Phonebook**
-  **Recent Calls**
 - Received Calls
 - Dialed Calls
 - Notepad
 - Call Times
 - Call Cost
 - Data Times
 - Data Volumes
-  **Messages**
 - New Message
 - Message Inbox
 - Email Msgs
 - Voicemail
 - Browser Msgs
 - Info Services
 - Quick Notes
 - Outbox
 - Drafts
 - MMS Templates
-  **Chat**

This is the standard main menu layout. Menu organisation and feature names may vary on your phone. Not all features may be available on your phone.

Settings Menu



Personalise

- Rhythm Lights
- Home Screen
- Main Menu
- Wallpaper Open
- Wallpaper Closed
- Rotation Sound
- Rotation Animation
- Colour Style
- Greeting
- Screen Saver
- Quick Dial



Ring Styles

- Ring Style
- style Detail
- Ring Lights
- Event Lights



Connection

- Bluetooth Link
- Sync



Call Divert

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



In-Call Setup

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



Initial Setup

- Time and Date
- 1-Touch Dial
- Display Timeout
- Backlight
- Status Light
- Scroll
- Language
- Brightness
- DTMF
- Master Reset
- Master Clear



Phone Status

- My Tel. Numbers
- Credit Info/Available
- Active Line
- Battery Meter
- Other Information



Headset



Car Settings

- Auto Answer
- Auto Handsfree
- Power Off Delay
- Charger Time



Network

- New Network
- Network Setup
- Available Networks
- My Network List
- Service Tone
- Call Drop Tone



Security

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








Java Settings

- Java System
- Delete All Apps
- App Vibration
- App Volume
- App Backlight
- DNS IP



Feature Quick Reference



This section helps you locate features on your phone that are not described in this guide.

Calling Features






Feature	Description
Conference Call	During a call:  > Hold , dial next number, press  , press LINK ()
Call Diverting	Set up or cancel call diverting:  > Settings > Call Divert
Call Barring	Restrict outgoing or incoming calls:  > Settings > Security > Call Barring




Messages

Feature	Description
Send Text Message	Send a text message:  > Messages > New Message > New Short Msg
Send Multimedia Message	Send a multimedia message:  > Messages > New Message > New Multimedia Msg









Feature	Description
Use MMS Template	Open an MMS template with preloaded media:  > Messages > New Message > MMS Templates 
Read Message	Read a new text or multimedia message that you have received: Press READ (⏏).

Instant Messaging





Feature	Description
Log In	Log in to instant messaging:  > IM > Log In 
Find Others Online	After you log in: Select Contact List to see a list of other users. 
Start Conversation	Start a conversation: From your Contact List , highlight a name in Online Contacts , press SEND IM (⏏). 
Open Active Conversation	Open a conversation in progress: From your Contact List , highlight a name in Conversations , press VIEW (⏏). 

Feature	Description
End Conversation	From the conversation display:  > End Conversation 
Log Out	Log out of instant messaging: Select Log Out from the IM Online menu. 

Chat

Feature	Description
Start Chat	Start a new chat session:  > Office Tools > Chat  > New Chat 
Receive Chat Request	When you receive a chat request: Press ACCEPT () or IGNORE (). 
End Chat	During a chat session:  > End Chat 

Email

Feature	Description
Send Email Message	Send an email message:  > Messages > New Message > New Email 
Read Email Message	Read a new email message that you have received: Press READ (). 

Phonebook

Feature	Description
Create Entry	Create a new phonebook entry: ☎ > Phonebook ☎ > New > Phone Number or Email Address
Create Group Mailing List	Create a group mailing list as a phonebook entry: ☎ > Phonebook ☎ > New > Mailing List
Dial Number	Call a number stored in the phonebook: ☎ > Phonebook , highlight the phonebook entry, press ☎ to call
Voice Dial Number	Voice dial a number stored in the phonebook: Press and release the voice key, and say the entry's name (within 2 seconds).
Set Ringer ID for Entry	Assign a distinctive ringer alert to a phonebook entry: ☎ > Phonebook > entry ☎ > Edit > Ringer ID > ringer name <i>Note: The Ringer ID option is not available for entries stored on the SIM card.</i>
Set Category for Entry	Set the category for a phonebook entry: ☎ > Phonebook > entry ☎ > Edit > Category > category name <i>Note: The Category option is not available for entries stored on the SIM card.</i>

Feature	Description
Set Category View	Set a phonebook category view: ☎ > Phonebook ☎ > Categories > category view
Set Category Light ID	Set a distinctive light pattern to be displayed when you receive calls from phonebook entries in a specific category: ☎ > Phonebook ☎ > Categories , scroll to entry, press ☎ > Edit > Light ID <i>Note: The Light ID option is not available for entries stored on the SIM card.</i>
Set Picture Caller ID View	View phonebook entries as text list, or with picture caller ID photos: ☎ > Phonebook ☎ > Setup > View by > list view <i>Note: The Picture option is not available for entries stored on the SIM card.</i>
Sort Phonebook List	Set the order in which phonebook entries are listed: ☎ > Phonebook ☎ > Setup > Sort by > sort order
Set Primary Number	Set the primary number for a phonebook entry with multiple numbers: ☎ > Phonebook , scroll to entry, press ☎ > Set Primary > phone number

Feature	Description
Copy Phonebook Entry to Another Device	Copy a phonebook entry to another phone, computer, or device: ☎ > Phonebook , highlight the entry, press ☎ > Send > Bluetooth
1-Touch Dial	Set 1-touch dial to call entries stored in your phone memory phonebook or the SIM card phonebook: ☎ > Settings > Initial Setup > 1-Touch Dial


Personalising Features

Feature	Description
Ring Style	Change the ring alert for an event: ☎ > Settings > Ring Styles > <i>style Detail</i> > <i>event name</i>
Ringer IDs	Activate distinctive ring alerts assigned to phonebook entries: ☎ > Settings > Ring Styles > <i>style Detail</i> > Ringer IDs
Ring Volume	Set ringer volume: ☎ > Settings > Ring Styles > <i>style Detail</i> > Ring Volume
Keypad Volume	Set keypad keypress volume: ☎ > Settings > Ring Styles > <i>style Detail</i> > Key Volume
Clock View	Display an analogue clock or digital time readout in the home screen: ☎ > Settings > Personalise > Home Screen > Clock








Feature	Description
Menu View	Display the main menu as graphic icons or as a text-based list: ☰ > Settings > Personalise > Main Menu > View
Main Menu	Reorder your phone's main menu: ☰ > Settings > Personalise > Main Menu > Reorder
Show or Hide Menu Icons	Show or hide menu feature icons in the home screen: ☰ > Settings > Personalise > Home Screen > Home Keys > Icons
Change Soft Keys & Menu Icons	Change soft key labels and menu feature icons in the home screen ☰ > Settings > Personalise > Home Screen > Home Keys
Shortcuts	Create a shortcut to a menu item: Highlight the menu item, then press and hold ☰. Select a shortcut: ☰ > Office Tools > Shortcuts > shortcut name



Menu Features

Feature	Description
Language	Set menu language: ☰ > Settings > Initial Setup > Language
Master Reset	Reset all options except unlock code, security code, and lifetime timer: ☰ > Settings > Initial Setup > Master Reset


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

Dialling Features







Feature	Description
Fixed Dial	Turn fixed dialling on or off:  > Settings > Security > Fixed Dial  Use the fixed dial list:  > Office Tools > Dialling Services > Fixed Dial
Service Dial	Dial service phone numbers:  > Office Tools > Dialling Services > Service Dial 
Quick Dial	Dial preprogrammed phone numbers:  > Office Tools > Dialling Services > Quick Dial 

Feature	Description
DTMF Tones	Activate DTMF tones:  > Settings > Initial Setup > DTMF Send DTMF tones during a call: Press number keys. Send stored numbers as DTMF tones during a call: Highlight a number in the phonebook or recent calls lists, then press  > Send Tones .

Call Monitoring






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

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

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

Handsfree Features

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

Feature	Description
Speaker-phone	Activate a connected external speakerphone during a call: Press SPEAKER (📞) (if available) or 📞 > Spkrphone On 
Auto Answer (car kit or headset)	Automatically answer calls when connected to a car kit or headset: 📞 > Settings > Car Settings or Headset > Auto Answer 
Voice Dial (headset)	Enable voice dial with headset send/end key: 📞 > Settings > Headset > Voice Dial 
Auto Handsfree (car kit)	Automatically route calls to a car kit when connected: 📞 > Settings > Car Settings > Auto Handsfree 
Power-Off Delay (car kit)	Set the phone to stay on for a specified time after the ignition is switched off: 📞 > Settings > Car Settings > Power-Off Delay 

Feature	Description
Charger Time (car kit)	Charge the phone for a specified time after the ignition is switched off: ☰ > Settings > Car Settings > Charger Time



Data and Fax Calls





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




Bluetooth® Wireless Connections

Feature	Description
Make Phone Visible to Other Device	Allow an unknown Bluetooth device to discover your phone: ☰ > Settings > Connection > Bluetooth Link > Setup > Find Me



Feature	Description
Connect to Recognised Device	Connect to a recognised handsfree device:  > Settings > Connection > Bluetooth Link > Handsfree > <i>device name</i>
Disconnect From Device	Disconnect from a device: Highlight the device name and press DROP (⏏).
Switch to Device During Call	Switch to a headset or car kit during a call:  > Use Bluetooth
Edit Device Properties	Edit the properties of a recognised device: Highlight the device name and press  > Edit .
Set Bluetooth Options	Set your phone's Bluetooth options:  > Settings > Connection > Bluetooth Link > Setup

Network Features

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

Personal Organiser Features

Feature	Description
Create Datebook Event	Create a new datebook event: ☰ > Office Tools > Datebook , highlight the day, press the centre select button, press ☰ > New
View Datebook Event	View or edit event details: ☰ > Office Tools > Datebook , highlight the day, press the centre select button, press VIEW (⏏)
Event Reminder	View event reminder: VIEW (⏏) Dismiss event reminder: EXIT (⏏)
Copy Datebook Event to Another Device	Copy a datebook event to another phone, computer, or device: ☰ > Office Tools > Datebook , highlight the day, press the centre select button, highlight the event, press ☰ > Send > Bluetooth
Set Alarm	Set an alarm: ☰ > Office Tools > Alarm Clock
Turn Off Alarm	Turn off alarm: Press DISABLE (⏏) or ⏏. Set 8-minute delay: Press SNOOZE (⏏).







Feature	Description
Create Voice Record	<p>Create a voice record: Press and hold voice key, speak into the phone, release voice key.</p> <p><i>Note: Recording phone calls is subject to varying laws regarding privacy and recording of conversations.</i></p>
Play Voice Record	<p>Play back a voice record: ☰ > Office Tools > Voice Records > voice record</p>
Calculator	<p>Calculate numbers: ☰ > Office Tools > Calculator</p>
Currency Converter	<p>Convert currency: ☰ > Office Tools > Calculator ☰ > Exchange Rate</p> <p>Enter exchange rate, press OK (⏹), enter amount, press ☰ > Convert Currency.</p>

Security

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

News and Entertainment

Feature	Description
Launch Micro-Browser	Start a micro-browser session: ☰ > Web Access > Browser
Download Objects from Web Page	Download a picture, sound, or phone theme from a Web page: Highlight the file, press SELECT (⏎), press STORE (Ⓜ).
Web Sessions	Select or create a Web session: ☰ > Web Access > Web Sessions
Apply Phone Theme	Apply a grouped set of image and sound files to your phone: ☰ > Multimedia > Themes > theme
Download Game or Application (Micro-Browser)	Download a Java game or application with the micro-browser: ☰ > Web Access > Browser , highlight the application, press SELECT (⏎), press DOWNLOAD (Ⓜ)
Launch Game or Application	Launch a Java game or application: ☰ > Games & Apps , highlight the application, press SELECT (⏎)
Manage Pictures	Manage pictures and animations: ☰ > Multimedia > Pictures

Feature	Description
Manage Sounds	Manage ring tones, sounds that you have composed or downloaded:  > Multimedia > Sounds
Manage Video Clips	Manage video clips:  > Multimedia > Videos
Edit Sounds With MotoMixer	Edit MIDI-based sound files that you can use with your phone:  > Multimedia > MotoMixer > [New MotoMixer] or mix file name
Create Ring Tones	Create ring tones that you can use with your phone:  > Multimedia > Sounds > [New iMelody]
Camera	Adjust light level and other settings for the integrated camera:  > Multimedia > Pictures  > Pictures Setup



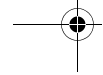
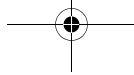
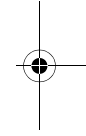
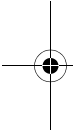
Specific Absorption Rate Data

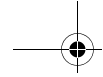
This model phone meets international standards for exposure to radio waves

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy. 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 organisations through periodic and thorough evaluation of scientific studies. The guidelines include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. Under the guidelines for your phone model, the SAR limit is 2.0 W/kg.¹ Tests for SAR are conducted in accordance with CENELEC² testing procedures using standard operating positions 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 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 base station, the lower the power output of the phone.

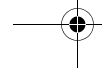
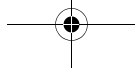
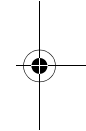
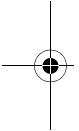
Before a phone model is available for sale to the public, it is tested to confirm compliance with the guidelines. The tests are performed in positions that conform to a uniform testing methodology determined by an expert standards body. The highest SAR value for this model phone when tested for use at the ear is: 0.54 W/kg.³





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.

- 1 The SAR limit recommended by international guidelines (ICNIRP) for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. The limit incorporates a substantial margin for safety to give additional protection for the public and to account for any variations in measurements.
- 2 CENELEC is a European Union standards body.
- 3 Additional related information includes the Motorola testing protocol, assessment procedure, and measurement uncertainty range for this product.



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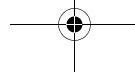
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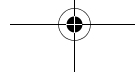
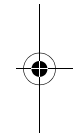
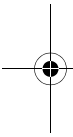
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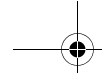
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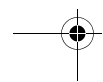
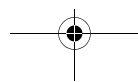
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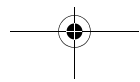
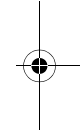
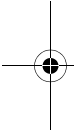
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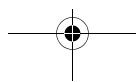
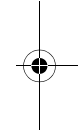
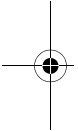


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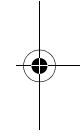
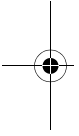
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