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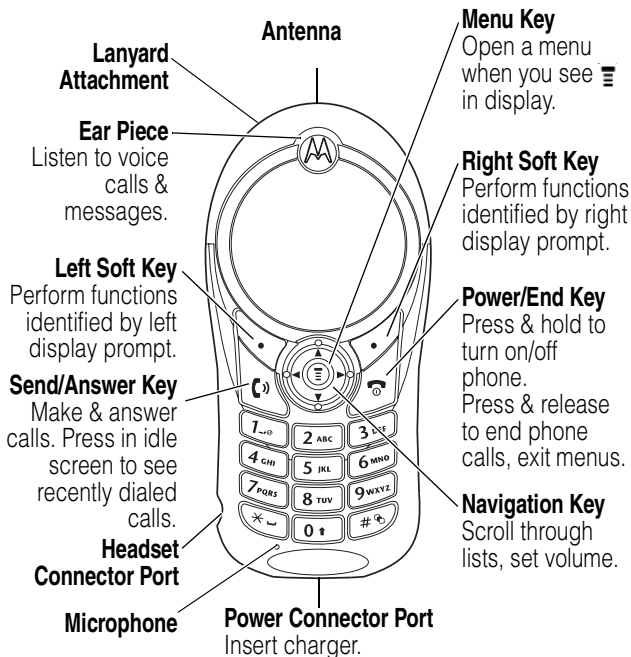
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INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:

Welcome

Welcome to the world of Motorola digital wireless communications! We are pleased that you have chosen the Motorola C155 wireless phone.



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

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Caution: Changes or modifications made in the radio phone, not expressly approved by Motorola, will void the user's authority to operate the equipment.

Manual number:

Contents

Menu Map	7
Getting Started	9
Package Content	9
About This Manual	9
Changing Your SIM Card and Battery	10
Battery Use	10
Charging Your Phone's Battery	11
Turning Your Phone On and Off	11
Learning to Use Your Phone	13
Adjusting the Volume	13
Making and Answering Calls	13
Symbols on the Screen	14
Using the Menu	15
Entering Text	17
Setting Up Your Phone	19
Setting the Time and Date	19
Changing Personal Greetings	19
Choosing Alert and Ring Tones	19
Setting Backlight	20
Setting Contrast	20
Setting Display Scrolling	20
Setting Main Menu Animation	21
Setting Battery Save	21
Resetting All Options	21
Clearing All Information	21
Setting Up Your Phone for Optional Handsfree Use . . .	22

Calling Features	23
Displaying Your Phone Number	23
Redialing a Number	24
Using My Caller ID	24
Terminating an Incoming Call	25
Dialing an Emergency Number	25
Dialing International Numbers	26
Inserting Special Characters into Dialing Sequences	26
Viewing the Received Calls, Dialed Calls, or Missed Calls List	27
Returning a Missed Call	28
Entering Numbers in the Notepad	29
Using Voicemail	29
Speed Dialing	31
1-Touch Dialing	31
Quick Dialing	32
Using Call Waiting	32
Forwarding a Call	33
Conference Calls	34
Barring a Call	35
Putting a Call on Hold	36
Locking and Unlocking the Keypad	37
Messages and Chat	38
Setting Up the Text Message Inbox	38
Sending Messages, Pictures, and Sounds	39
Viewing Message Status	41
Receiving and Reading Messages	41
Using Browser Messages	42
Sending Quick Notes	42
Using Info Services	43

Using Chat	43
Start a Chat Session.	44
Review Chat History	45
Clear History.	45
Respond to Chat.	45
End a Chat Session	46
Phonebook	47
Storing a Phonebook Entry.	47
Dialing a Phonebook Entry	49
Editing a Phonebook Entry	49
Sorting and Copying Phonebook Entries	50
Checking Capacity	51
Personalizing Your Phone	53
Customising Menus	53
Redefining Soft Keys	53
Selecting a Favorite Wallpaper	54
Selecting a Customized Screen Saver	54
Selecting a Different Language	55
Selecting a Greeting	55
Selecting a Color Setting	55
Customising a Banner	56
Using MyMenu	56
Downloading Ring Tones	58
Getting More Out of Your Phone.	59
Dialing Options	59
Managing Your Calls.	60
Monitoring Phone Use	61
Network Features	64
Personal Organizer Features.	65
Alarm Clock	65
Calculator	66

Converting Currency	66
Using the Stop Watch	67
Security	68
Locking and Unlocking Your Phone.	68
Changing Your Unlock Code	69
If You Forget A Code Or Password	70
Protecting the SIM Card	71
News and Entertainment	72
Mobile Internet	72
Games.	75
Troubleshooting	77
Specific Absorption Rate Data	85
Specific Absorption Rate Data	87
Index	89

Menu Map

Main Menu

- Messages
- Phonebook
- Recent Calls
- MyMenu
- Ring Style
- Alarm Clock
- Settings
- More
- Quick Dial
- Games
- Browser
- Chat

Notes:

- The Main Menu represents the standard phone menu layout. You or your service provider may change feature names or the order of menu options.
- Not all features are available for all service plans or geographical areas.

Shortcuts

Press  up or down to access phonebook, right or left to adjust volume.

View Dialed Calls:

Press .

Exit menus:

Press .

Settings Menu

- **Call Forward ***
 - Voice Calls
 - Cancel All
- **Phone Status**
 - My Numbers *
 - Active Line *
 - Battery Meter
- **In Call Setup**
 - In-Call Timer
 - Call Cost Setup *
 - My Caller ID
 - Answer Options
 - Call Waiting
- **Security**
 - Phone Lock
 - Lock Keypad
 - Auto Key Lock
 - Fixed Dial
 - Call Barring *
 - SIM PIN
 - New Passwords
- **Other Settings***
 - Personalize
 - Main Menu
 - Keys
 - Greeting *
 - Banner
 - Screen Saver
 - Quick Dial *
 - Wallpaper
 - Color Setting
- **Initial Setup**
 - Time and Date
 - Power On/Off*
 - 1-Touch Dial
 - Backlight
 - Scroll
 - Main Menu Animation
 - Language
 - Battery Save
 - Contrast
 - DTMF
 - Master Reset
 - Master Clear
- **Network**
 - New Network
 - Network Setup
 - Avail. Networks
 - My Network List
 - Service Tone
 - Call Drop Tone
 - Band Selection *
- **Headset**
 - Auto Answer

* Optional Network, SIM card, or subscription-dependent features.

+ This function allows you to have your phone automatically turned on and off at specified times, helping you save battery life.



Be sure to turn off the power on/off feature when travelling on an airplane or in other situations where the use of the mobile phone is prohibited.

Getting Started

Package Content

Your wireless phone comes with a replaceable internal battery and is typically equipped with a charger. Other accessories can customize your phone to its maximum performance and portability.

About This Manual

Optional Features



Features marked with this label are optional network, SIM card, and/or subscription-dependent features. Not all service providers in all geographical areas offer these features.

Contact your service provider for information about availability.

Optional Accessories



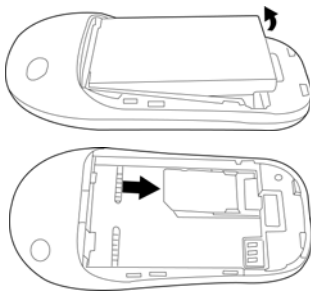
Features marked with this label require the use of an optional Motorola Original accessory.



Changing Your SIM Card and Battery



Your SIM (Subscriber Identity Module) card contains your phone number, service details and phonebook/message memory. It must be installed in your phone by placing it in the defined SIM card slot on your phone (located on the back of your phone underneath the replaceable battery).



Battery Use

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

- Always use Motorola Original™ batteries and chargers. The warranty does not cover damage caused by non-Motorola batteries and/or chargers.
- New batteries or batteries stored for a long time may take more time to charge.
- When charging your battery, keep it near room temperature.
- When storing your battery, keep it uncharged in a cool, dark, dry place, such as a refrigerator.



- Never expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your vehicle.
- It is normal for batteries to gradually wear down and require longer charging times. If you notice a change in your battery life, it is probably time to purchase a new battery.



Contact your local recycling center for proper battery disposal.

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

Before using your phone, read the battery safety information in the “Safety and General Information” section included in this guide.

Charging Your Phone's 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.

To charge your phone, plug the travel charger into the right jack on the bottom of your phone. Plug the other end of the travel charger into the appropriate electrical outlet. After the phone is fully charged, remove the charger.

Turning Your Phone On and Off

To turn your phone on and off, press and hold . If necessary, enter your SIM card PIN code and press .

Note that after you enter an incorrect code 3 times, your SIM card is disabled and the phone displays **SIM Blocked**. If

necessary, enter your 4-digit code and press  to unlock your phone.

Note: The default unlock code is 1234.



Learning to Use Your Phone

Adjusting the Volume

When you are in a call, you can adjust the earpiece speaker volume by pressing  right or left.

When the phone display is in idle, press  right or left to adjust the ring volume. Press repeatedly to the left to mute the phone or switch vibrate mode.



Making and Answering Calls

To make a call, use the keypad keys to enter the number. (Press **DELETE** () to erase the last digit, or press and hold **DELETE** () to erase all digits.) Press  to place the call and  to end it.

To make a call from the phonebook, see “Phonebook” on page 47.

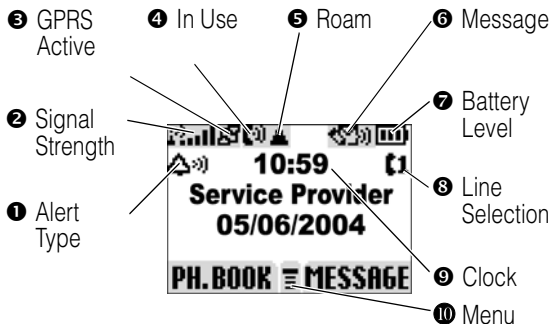
To answer a call, press  to answer and  to end the call.

When you select **Mutil-Key On**, you can answer a call by pressing any key.

Find the Feature

≡ > Settings > In Call Setup
> Answer Options
> Mutil-Key On

Symbols on the Screen



① Alert Type Shows the currently selected alert profile. The default alert setting is loud ring.

② Signal Strength Shows the strength of your phone's network connection.

③ GPRS Active Indicates that your phone is using a high-speed GPRS network connection. GPRS allows faster data transfer speeds. The indicator does not mean that you are in a call, only that you are registered on the network via a GPRS connection.

- ④ In Use** Indicates when a call is in progress and when you have a secure or insecure connection.
- ⑤ Roam** Appears when your phone uses a network system outside your home network.
- ⑥ Message** Appears when you have a new voice or text message waiting. Other icons in this location indicate your text entry mode (alpha, numeric, symbol and etc.).
- ⑦ Battery Level** Shows the amount of charge remaining in your battery. The more bars visible, the greater the charge.
- ⑧ Line Selection** Displays the current phone line you are using, depending on the service provider.
- ⑨ Clock** Displays the real time. (See “Setting the Time and Date” on page 19.)
- ⑩ Menu** Indicates that you can press the menu key to open the system menu.

Using the Menu

Navigating to a Feature

Use these keys to move through the menu system:

 Press to select the function indicated on the bottom right of the screen.

 Press to select the function indicated on the bottom left of the screen.

 Make and answer calls, and view recently dialed calls.



 Press and hold to turn the phone off, or press to end calls and exit menus.

 Scroll through menus/lists, and set feature values.

The following example demonstrates how to select a feature and enter information:

Find the Feature

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

Press , then scroll to and select **Recent calls** to view information about the last call.



Selecting a Feature

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

Press **BACK/EXIT** () to return to the previous screen. Scroll up or down through the numeric items. Press **VIEW/SELECT** () to view details about a highlighted item. Press  to enter a sub-menu.

Entering Feature Information

Features such as **Phonebook** and **Greeting** require you to enter detailed information.

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

Note: **OK** () appears when you enter information. Press it to save the information.

Press **CHANGE** () to edit the selected item. Also, you may scroll up or down through numeric items.

Enter numbers or text with the keypad.

Entering Text

The default Tap method makes it easy for you to enter names, numbers and text messages on your phone. You can enter all characters (letters, numbers, and symbols) using the Tap method.

To enter text with the Tap method, press a number key 1 or more times to cycle through characters. Release the key to enter the displayed character. Press **OK** () when you finish editing.

To switch from iTap, Tap and Numeric mode, press  to enter **Entry Method**, then confirm your selection.

Character Chart

Use this chart as a guide for entering spaces, numbers, letters, symbols, and other characters with the Tap method. Press the same key repeatedly to cycle through available characters.

	. 1 ? ! , @ _ & ~ : ; " - () ' ` i % £ \$ ¥ ¤ €
	A B C 2
	D E F 3
	G H I 4
	J K L 5
	M N O 6
	P Q R S 7
	T U V 8



	W X Y Z 9
	+ - 0 x * / \ [] = > < # §

Note: The Tap sequence could be different in different language Tap input method.

Capitalization

Press	To
 (up/down)	change the words to initial character capitalized, all uppercase characters,
or	or
	all lowercase characters
	add a space

Delete Letters and Words

Action
Press DELETE () to delete 1 letter at a time.
Press and hold DELETE () to delete the entire message.

Note: Sizes of characters may vary from one language to another.

Setting Up Your Phone

Setting the Time and Date

Find the Feature

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

Changing Personal Greetings

Find the Feature

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

Choosing Alert and Ring Tones

Your phone rings and/or vibrates to notify you of an incoming call, message, or other event. This ring and/or vibration is called an *alert*. You can select one of 6 different alert profiles: **Loud Ring**, **Soft Ring**, **Vibrate**, **Vibrate & Ring**, **Vibrate then Ring**, and **Silent**.

Each alert profile contains settings for ringer and keypad volume. It also includes alert tone settings for different events: incoming calls, text messages, voicemail and messages. You can change the setting in each profile.

To choose an alert profile:

Find the Feature

- ☰ > Ring Styles > Ring Type
- > *desired profile*
- > **Select**



To notify you of specific events with an alert profile:

Find the Feature

-  > **Ring Styles** > **Tone Details**
- > *desired event*
- > **Select**
- > *alert for event*
- > **Select**

Setting Backlight

To set how long the display backlight lasts:

Find the Feature

-  > **Settings** > **Other Settings**
- > **Initial Setup** > **Backlight**
- > *desired time span*

Setting Contrast

To set display contrast level:

Find the Feature

-  > **Settings** > **Other Settings**
- > **Initial Setup** > **Contrast**
- > *desired amount*

Setting Display Scrolling

To set the cursor to stop or wrap around when it reaches the top or end of a list:

Find the Feature

-  > **Settings** > **Other Settings**
- > **Initial Setup** > **Scroll**
- > *desired scroll*

Setting Main Menu Animation

To turn main menu animation on and off:

Find the Feature

-  > **Settings > Other Settings**
- > **Initial Setup**
- > **Main Menu Animation**
- > *desired mode*

Setting Battery Save

To conserve the phone's power usage:

Find the Feature

-  > **Settings > Other Settings**
- > **Initial Setup > Battery Save**
- > *desired mode*

Resetting All Options

To restore all options to factory default values, except for unlock code, security code, and lifetime timer:

Find the Feature

-  > **Settings > Other Settings**
- > **Initial Setup > Master Reset**
- > *desired mode*

To reset all options, you must enter the **Security Code**.

Clearing All Information

To reset all options back to their factory settings and clear all user entries (such as Phonebook entries and



downloaded wallpapers, main menu animation, and sounds):

Warning: This option erases all user-entered information stored in your phone memory, including phonebook entries and downloaded files. Once you erase the information, it cannot be recovered. It resets all options back to their factory settings except for the unlock code, security code, and lifetime timer.

Find the Feature

 > **Settings** > **Other Settings**
> **Initial Setup** > **Master Clear**

To clear all information, you must enter the security code (000000).

Setting Up Your Phone for Optional Handsfree Use

A phone headset enables you to use your phone without using your hands. Handsfree operation makes it possible for you to make calls and receive calls without using your hands.

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

Find the Feature

 > **Settings** > **Other Settings**
> **Headset** > **Auto Answer**
> *desired mode*

Calling Features

This chapter describes features related to making and answering calls.

Displaying Your Phone Number

To display your phone number, you must predefine your phone number.

From the idle display:

Find the Feature

 > Settings > Phone Status
> My numbers

Press	To
1 View ()	change Name or No.
2 OK ()	confirm or cancel the change
or	
Cancel ()	

Note: Your phone number must be programmed on your SIM card in order to use this feature.

When you are on a call:

Find the Feature

 > My numbers



Redialing a Number

You can redial a previously dialed phone number, whether the call was connected or busy. From the idle display:

Press	To
1 	go directly to the dialed calls list
2 	redial the highlighted number

or

Find the Feature

 > **Recent calls**
> **Received Calls, Dialed Calls, Missed Calls** or **NotePad**

Press	To
1 	scroll to the entry you want to call
2 	redial the highlighted number

Using My Caller ID



The calling line identification (Caller ID) feature lets you see who is calling before answering. If the caller's name is stored in your phonebook, the phone automatically displays the Name.

Otherwise, the phone displays the caller's phone number.

If Caller ID information is not available, your phone displays **Incoming Call**.



Terminating an Incoming Call

While the phone is ringing or vibrating:

Press	To
 or IGNORE ()	cancel the incoming call



Depending on your phone settings and the type of subscription you have, the call may be forwarded to another number, go directly to voicemail, or the caller may hear a busy signal.

Dialing an Emergency Number

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

Note: Emergency numbers vary 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.

To call the emergency number at any time:

Press	To
1 keypad keys	dial the emergency number (such as 112)



Press**To****2**

call the emergency number

Dialing International Numbers

To dial the local international access code:

Action

Press for 2 seconds to insert the international access code “+” and then enter in the country code for the country that you would like to connect to (e.g., +44 for the U.K., +33 for France, etc.) followed by the rest of the phone number.

Inserting Special Characters into Dialing Sequences

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

While dialing (with digits visible in the display), you can press longer, **#** shows and then **w** will show later in the display:

Option	Description
Insert Pause (insert a #)	Your phone waits until the call connects before it dials the next digit(s) in the series.



Option	Description
Insert Wait (insert a w)	Your phone waits until the call connects, then prompts you for confirmation before it dials the next digit(s).

Viewing the Received Calls, Dialed Calls, or Missed Calls List

Your phone keeps lists of the numbers from calls you recently received, dialed, and missed even if the calls did not connect. The lists are sorted from newest to oldest entries. The oldest entries are deleted as new ones are added. Each entry tells you the person's number (or name, if available) and whether the call was connected or not. You can call, store, or delete the numbers on these lists.

Shortcut: Press  to go directly to the dialed calls list from the idle display.

To open the recent calls menu:

Find the Feature

 > Recent Calls

Press	To
1 	scroll to Received Calls, Dialed Calls, or Missed Calls
2 SELECT ()	select Received Calls or Dialed Calls



Press	To
3 highlight entry	scroll to an entry you want to call, store, or delete
	Note: if an entry is in bold print , it means the call connected.
4 	call the entry's number
or	
VIEW ()	see the entry's details
or	
BACK ()	go back to the last menu list.

Returning a Missed Call

When powered on, your phone keeps a record of your missed calls. When you cannot answer a call, your phone displays the missed call indicator.

Press	To
1 VIEW ()	see the Missed Calls list, beginning with the most recent call
2 	scroll through the list and select a call that you want to view
3 	make the call



Note: If you have a missed call, the phone will display **Missed Calls**.

Entering Numbers in the Notepad

Your phone stores the most recent string of digits entered on the keypad in a temporary memory location called the notepad. These digits can be the last phone number that you called, or a phone number that you simply entered but did not call. These digits remain in the notepad even when you turn off the phone.

To call the number, create a phonebook entry, or perform other operations with the number stored in the notepad:

Find the Feature

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

Using Voicemail



You can listen to your voicemail messages by calling your network voicemail phone number. Voicemail messages are stored on the network, not on your phone. Contact your service provider for more details.



Storing and Changing Your Voicemail Number

Store your voicemail number in your phone to make it faster and easier to use voicemail. Your voicemail number is provided by your service provider.

Find the Feature

 > Messages > Voicemail
 > Voicemail Setup

Press	To
1 keypad keys	enter the phone number for your voicemail
or	
Delete ()	change the number
2 OK ()	store the number

Receiving a New Voicemail Message

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

Listening to a Voicemail Message

To listen to you voicemail message at any time:

Find the Feature

 > Messages > VoiceMail

Your phone calls the voicemail phone number you stored. If you do not have a voicemail number stored, the phone guides you through storing a number.

Speed Dialing

Speed dial lets you dial any phonebook entry with a minimal number of key presses.

When you store an entry in your phonebook, it is assigned a unique speed dial number. You can then use the speed dial feature to call the entry. In the idle display:

Press	To
1 keypad keys	enter the speed dial number for the entry you want to dial
2 Store ()	store the number
or	
Delete ()	delete the number
3 	submit the number
4 	call the entry

Note: To edit phone numbers in the **Entry Details** of the speed dial, please refer to “Storing a phonebook entry” on page “Storing a Phonebook Entry” on page 47.

1-Touch Dialing

You can call phonebook entries 1 through 9 with the push of a single key. The first 9 numbers from the SIM card are



stored in 1-touch dialing locations 1 through 9. Press and hold the 1-digit speed dial number for 1 second.

Find the Feature

- ☰ > **Settings > Other Settings**
- > **Initial Setup > 1-Touch Dial**
- > **SIM or Fixed Dial**

Note: To change 1-touch numbers, go to **Phonebook** to change the **Speed Number**.

Quick Dialing



Your service provider may program your phone with 1 or more quick dial numbers (such as a customer service number). You can call them by selecting them from the quick dial list.

Find the Feature

- ☰ > **Quick Dial**

Note: Your service provider may use a different name for this feature.

To change your quick dial numbers:

Find the Feature

- ☰ > **Settings > Other Settings**
- > **Personalize > Quick Dial**

Using Call Waiting



If you subscribe to call waiting, an alert tone sounds while you are on a call to indicate that



you have received a 2nd call. To put the 1st call on hold and answer the 2nd call, press **Swap** ().

Press	To
1 	answer the new call
2 Swap ()	return to the 1st call
Note: You can press Swap () at any time to switch between calls.	

To end the 1st call and answer the 2nd call:

Press	To
1 	end the current call Your phone rings to signal the new call.
2 	answer the new call

To activate or deactivate call waiting:

Find the Feature

 > **Settings** > **In Call Setup**
> **Call Waiting**

Forwarding a Call



Call forwarding sends your phone's incoming calls directly to another phone number. Use call forwarding options to specify which calls your phone should forward. When you are ready to



accept calls on your phone again, you can turn off call forwarding.

Set Up or Cancel Call Forwarding

Find the Feature

 > **Settings** > **Call Forward**
> *desired mode*

Press	To
1 	select the desired mode
2 Select () or Exit ()	choose the entry exit the entry
3 	select from Status, On to Off
4 Select () or Back ()	confirm the choice go back

The **Call Forward** option includes **Voice Calls** and **Cancel All**.

Note: You can repeat this procedure to enter forwarding information for other call types.

Conference Calls



To talk to more than 1 person on a call, you can make a conference call. Call the 1st person,

call the 2nd person, and then link the 2 calls.

Press	To
1 keypad keys	dial the 1st person's number
2 	call the number
3 Hold () or  > Hold ()	put the 1st call on hold Your phone displays a flashing phone indicator next to the call on hold.
4 keypad keys	dial the next person's number
5 	call the number Your phone displays an active call indicator next to the new active call.
6 LINK ()	connect the 2 calls
7 	end the entire call

Barring a Call



Call barring lets you restrict outgoing or incoming calls. You can restrict all calls, calls to international numbers, or calls while roaming.

Find the Feature

 > **Settings** > **Security**
> **Call Barring**



Press	To
1 	scroll to Outgoing or Incoming calls
2 SELECT ()	select barring for Outgoing or Incoming calls
3 	scroll to a restriction for the barred calls
4 SELECT ()	select the restriction for the barred calls
5 keypad keys	enter your call barring password (from your network service provider)
6 OK ()	submit your password

Putting a Call on Hold

When you are on a call:

Action

Press **Hold** (if available).

or

Press  > **Hold**.

Your phone displays a “flashing phone” indicator to indicate that the call is on hold.



Locking and Unlocking the Keypad

You can lock and unlock the keypad in idle mode by pressing the menu key , then the  key while in idle mode.

Auto Key Lock

To automatically lock the keypad keys:

Find the Feature

 > **Settings** > **Security**
> **Auto Key Lock**

Press	To
1  (up or down)	go to the preferred mode
2 SELECT ()	confirm the option
or	
Exit ()	exit the option



Messages and Chat



Text messages are brief messages that you can send and receive (such as **Where are we meeting?**).

You must set up the text message inbox before you can send and receive these messages.

The total number of messages the inbox can hold depends on the length of the message and the number of other messages and drafts stored in your phone.

Note: Your service provider may have already programmed the text message inbox settings for you.

Setting Up the Text Message Inbox

Find the Feature

 > Messages

 > Text Msg Setup

Press	To
1 	scroll to Message Centre
2 Select ()	change the Service No. which is provided by your service provider
3 keypad keys	enter the phone number for the service centre that handles your outgoing messages



Press	To
4 OK ()	store your service centre number

Sending Messages, Pictures, and Sounds

You can send text messages, pictures, or sounds to 1 or more recipients. You can manually enter each recipient's phone number, or select one or more numbers from the phonebook or recent calls lists. When the messages are sent, they will be saved to the outbox.

Note: Files may not be compatible with some brands of handsets.

Find the Feature

-  > **Messages**
-  > **Create Message**
- or
- > **Create > SMS/EMS**

Press	To
1 SELECT ()	go to Create to start message editing
2 SELECT ()	go to SMS/EMS to enter the text message

or





Press	To
	to insert a picture, animation, or sound file in the message, press:  > Insert > <i>object type</i> > <i>object</i> Note: Message length is limited. The counter at the top of the display shows how many characters are left.
3 SEND ()	begin to select the phone number
4 keypad keys	enter 1 or more phone numbers where you want to send the message
or 	select one or more phone numbers from the phonebook
5 OK ()	store the number(s)
6 SELECT ()	finish the message Your phone displays Send Msg Now?
7 YES ()	send the message
or No () > OK	store the message
or CANCEL	cancel the message

Viewing Message Status

Text messages that you send are stored in the Outbox. To view the content of your outbox:

Find the Feature

 > **Messages** > **Outbox**

Text messages are sorted from the newest to oldest.

Receiving and Reading Messages

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

When you receive a new message (including browser message), your phone displays **New Message** and plays an alert. Press **READ** () to open the message (or your text message inbox if there are multiple messages).

You can press  to view the **Text Msg Menu**, which includes the following options:

Options	Description
Delete	Delete the message.
Call Back	Call the number in the message header or embedded in the message.
Reply	Open a new message, with the sender's Reply To number or email address in the To field.



Options	Description
Forward	Open a copy of the text message, with an empty To field.
Lock	Lock the message so that cleanup does not delete it.
Store Number	Save callback number.
Delete All	Delete all the messages.
Create Message	Create a new message.

Using Browser Messages

Your network server can send you messages that you can read on your browser.

Find the Feature

☰ > Messages
> Browser Messages

Sending Quick Notes

To insert a Quick Note:

Find the Feature

☰ > Messages > Quick Notes

To edit a quick note:

Press	To
1 READ ()	select and create the desired note
2 SEND ()	send the note
or	



Press	To
DELETE () or keypad keys	delete the note edit the note
3 SEND () or 	enter a phone number select the number from Phonebook
4 OK ()	confirm the number
5 YES ()	send the note

Using Info Services

Info. Services allow you to receive broadcasting messages such as the latest stock information or news. Before you use the feature, make sure you set up the Info services box.

Note: The feature depends on your service provider.

Find the Feature

 > **Messages** > **Info. Services**

Using Chat

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



Start a Chat Session

Find the Feature

 > Chat > Start Chat

Press	To
1 keypad keys	enter your Nickname
2 OK ()	save your Nickname
3 keypad keys	enter your first chat message
4 OK ()	save the message
5 	scroll to Phone Number Entry or PB lookup
6 keypad keys	enter your chat partner's phone number
or	
PB lookup	select a number from the phonebook
7 OK ()	send the chat message When your chat partner replies, the reply appears below your text.
8 CHAT ()	enter a reply to your partner
9 OK ()	send your reply
10 SUSPEND ()	suspend this chat and Resume Chat or End Chat later when Chat is selected again



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

Review Chat History

Find the Feature

 > Chat > History

Clear History

Find the Feature

 > Chat > Clear History

Respond to Chat

When you receive a chat message, your phone displays Chat indicating the name of the person wanting to chat, and gives an alert.

Press		To
1	ACCEPT ()	accept the chat session
2	IGNORE ()	refuse the chat session

If reminders are turned on, your phone sends a reminder at regular intervals until you respond to the chat notification or turn off your phone. If you receive another chat request during a chat session, the new request appears as an incoming text message, with the requestor's chat name at the beginning of the message.



End a Chat Session

A chat session also ends when you turn off the phone, answer an incoming call, or start a new chat session.

Your chat partner is not notified when you end a chat session. If your partner sends more chat text, the phone treats it as an incoming text message, with your chat partner's chat name at the beginning of the message.



Phonebook



You can store a list of names and phone numbers in your phone's SIM card. You can view these entries and call them directly from your phone.

To see the list of names stored in your phonebook, press  > **Phonebook** from the idle display. Scroll to a name and press **View** () to view details of the phonebook entry.

Storing a Phonebook Entry

A phone number is required for a phonebook entry. All other information is optional. You can store a phonebook entry on your SIM card only.

Shortcut: Enter a phone number in the idle display, then press **STORE** () to create a phonebook entry with the number in the **NO.** field. Go directly to step 3 in the following procedure to enter additional information and store the entry.

Note: You can also use the following procedure to store a fixed dial entry by scrolling to and selecting **Fixed Dial**.

Enter Information

Find the Feature

 > **Phonebook** > **New Entry**

Press	To
1 SELECT ()	select the type of entry



Press	To
2 CHANGE ()	select Name
3 keypad keys	enter a name for the phonebook entry
4 OK ()	store the name
5 CHANGE ()	enter the phone number
6 OK ()	store the phone number
7 	scroll to Speed No. The next available speed dial number is assigned to the entry by default.
8 CHANGE ()	select Speed No. if you want to change it
9 keypad keys	enter a different speed number if desired
10 OK ()	save the modified speed number If your chosen speed number is already assigned to another entry, you are asked if you want to replace that entry.

Complete Phonebook Entry

When you finish entering information for a phonebook entry:

Press	To
DONE ()	store the entry and return to the phonebook list



Dialing a Phonebook Entry

You can use the phonebook list, speed dial, or 1-touch dial to call a number stored in your phonebook.

Phonebook List

Find the Feature

 > **Phonebook**

Press	To
	scroll to the desired entry
	call the entry

Editing a Phonebook Entry

You can edit a phonebook entry stored on your SIM card. If you change an entry's speed dial number, the entry is moved to the new speed dial location and the original entry is deleted.

Note: You can also use the following procedure to edit a fixed dial entry by scrolling to and selecting **Fixed Dial**.

Find the Feature

 > **Phonebook**



Press	To
1 	scroll to the entry you want to edit
2 VIEW ()	display the entry's detailed view
3 EDIT ()	edit the phonebook entry

Deleting a Phonebook Entry

Find the Feature

 > Phonebook

Press	To
1 	scroll to the entry you want to delete
2 	open the phonebook menu
3 	scroll to Delete
4 SELECT ()	select Delete
5 YES ()	confirm the deletion

Sorting and Copying Phonebook Entries

You can copy 1 phonebook entry from your SIM card location to another SIM card location.

Note: This function copies the original entry to a new location. It does not delete the original entry.

Copy a Single Entry

Find the Feature

 > Phonebook

Press	To
1 	scroll to the entry you want to copy
2 	open the phonebook menu
3 	scroll to Copy Entry
4 SELECT ()	select Copy Entry
5 YES ()	confirm that you want to copy an entry
or	
NO ()	cancel the option



Checking Capacity

To check how much space is left in your phonebook, your phone displays the number of entries that are used and the number available. To see how much memory is left in your SIM card:

Press	To
1 	open the phonebook menu
2 	scroll to Capacity



Press	To
3 SELECT ()	select Capacity Your phone displays the number of SIM card phonebook entries available.

Personalizing Your Phone

Customising Menus

You can customize the order of the items in your phone's main menu, depending upon your usage.

Find the Feature

 > Settings > Other Settings
> Personalize > Main Menu



Press	To
1 	scroll to the menu item you want to move
2 GRAB ()	select the menu item you want to move
3 	move the item up or down the menu
4 Insert ()	insert the item in the new location

Redefining Soft Keys

Find the Feature

 > Settings > Other Settings
> Personalize > Keys

Press	To
1 	scroll Left or Right

Press	To
2 SELECT ()	open the key editor
3 	scroll to the new key function
4 SELECT ()	confirm the new function

Selecting a Favorite Wallpaper

Find the Feature

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

Setting	Description
Set Layout	select Centre or Tile
Picture	select the picture for the background image in your idle display

Selecting a Customized Screen Saver

Find the Feature

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

Press



To

select the **Animation** that displays when your phone is idle, or select **Idle Time** to set how long your phone must be idle before the screen saver picture displays

Note: If this setting is longer than your **Display Timeout** setting, then your display will turn off before you see the screen saver.



Selecting a Different Language

Find the Feature

 > Settings > Other Settings
> Initial Setup > Language

Selecting a Greeting

Find the Feature

 > Settings > Other Settings
> Personalize > Greeting

Selecting a Color Setting

Find the Feature

 > Settings > Other Settings
> Personalize > Color Setting

Customising a Banner

You can customize the banner that displays under the name of your service provider on your screen.

Find the Feature

 > **Settings** > **Other Settings**
> **Personalize** > **Banner**

Press	To
1 keypad keys	enter the wording you would like to display for your banner
2 OK () or DELETE ()	confirm your entry cancel the entry

Using MyMenu

MyMenu enables you to quickly access your favorite menu features.

Using MyMenu Shortcut

You can use **MyMenu** from the idle display, while on a call, or while scrolling through a menu.

Use a MyMenu Key Command

If you know the MyMenu key number:

Press	To
1 	open the menu

Press	To
2 the MyMenu key number	go to the menu item, or perform the menu action

Select a Feature From the MyMenu list

To select a feature from the MyMenu list:

Find the Feature

 > **MyMenu**
> *desired feature*

Note: To edit or delete a **MyMenu** feature, highlight it in the list and press  to open a menu of options for that feature.

Adding a MyMenu Shortcut

Press	To
1 	enter the menu system
2 	highlight the menu item
3 press and hold 	open the MyMenu editor The phone displays Assign MyMenu for: "Item"? , where <i>Item</i> is the name of the item you selected.
4 Yes	view your options
5 CHANGE ()	change the MyMenu key number, if necessary
or	
DONE ()	select the MyMenu key number and close the editor



Downloading Ring Tones

You may download ring tones from the browser. For details, see “Downloading Pictures, Games and Ring Tones” on page 74.



Getting More Out of Your Phone

Dialing Options

Fixed Dialing

When you activate the fixed dial feature, users can only call the numbers in the fixed dial list.

Note: Employers can use fixed dial to limit employees' phones to a predefined list of numbers, country codes, or other prefixes.

Activating Fixed Dial

Fixed Dial list entries can be any length. You must enter your SIM PIN2 code supplied by your service provider.

Find the Feature

 > Settings > Security
> Fixed Dial

Service Dialing

Your service provider can program your SIM card with phone numbers for services such as taxi companies, restaurants, and hospitals.

Find the Feature

 > More > Service Dial



Managing Your Calls

Calling a Number in a Text Message

If you receive a text message with an embedded phone number, you can dial the number directly.

Find the Feature

☰ > Messages > Inbox

Press	To
1 	scroll to the message with the desired number
2 	open the menu options for the desired number
3 	scroll to Call Back
4 CALL () or BACK	call the number return to the last set of menu options

If the message contains more than 1 phone number, scroll to the desired number and press **SELECT** to dial.

Sending DTMF Tones

To set the tones to be **Long** DTMF or **Short** DTMF:

Find the Feature

☰ > Settings > Other Settings
> Initial Setup > DTMF

Monitoring Phone Use

Viewing and Resetting Call Timers

Your phone tracks and records call times. Use the **Recent Calls** menu to view and reset a call timer.

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 be equal the amount of time for which you are billed by your service provider. For billing information, please contact your service provider directly.

To view a call timer:

Find the Feature

 > **Recent Calls** > **Call Times**

Press	To
1 	scroll to the timer you want to view
2 SELECT ()	view the recorded time

To reset a call timer:

Press	To
1 RESET ()	reset the time if available
2 YES ()	confirm the reset



You can view the approximate network connection time elapsed during the following calls:

Timer	Description
Last Call	Time of the last call dialed or received. You cannot reset this timer.
Dialed Calls	Total time of dialed calls since the last time you reset this timer.
Received Calls	Total time spent on calls received since the last time you reset this timer.
All Calls	Total time of dialed and received calls since the last time you reset this timer.
Life Time	Total time of all calls on this phone. You cannot reset this timer.



Viewing and Resetting Call Costs

Find the Feature

 > **Recent Calls** > **Call Cost**

Press	To
1 	scroll to the cost tracker you want to view
2 SELECT ()	view the recorded cost

To reset the call tracker:

Press	To
1 RESET ()	reset all the cost (if available)
2 OK ()	enter your PIN2 code to confirm the reset

Your phone network can provide the following call cost information:

Cost Tracker	Description
Credit Available	Amount of your credit remaining. For GSM advice-of-charge, this is only available if you set a credit limit. Note: your phone receives cost information from the advice-of-charge feature or 3rd-party prepay software.
Last Call Cost	Amount for the last call you dialed or received. You cannot reset this cost tracker.
All Calls Cost	Amount for all dialed and received calls since the last time you reset this cost tracker. You can reset this value separate from Dialed Calls and Received Calls, so Dialed Calls plus Received Calls may not equal All Calls.



Cost Tracker	Description
Reset All Costs	Reset all call cost records.

Network Features

Network Selection

Find the Feature

 > **Settings** > **Other settings**
> **Network**

Your service provider registers your phone to a network. You can view information about the current network, change how your phone searches for a network, specify your preferred networks, and activate alerts that indicate when a call is dropped or network registration changes.



Personal Organizer Features

Alarm Clock

You may create a new alarm or activate a predefined alarm profile. To create a new alarm profile:

Find the Feature

 > Alarm Clock

Press	To
 > SELECT () (New Alarm)	create/edit alarm item Alarm content list: Name: , Time: , Alert: , Volume:
 > Edit	same as above
 > Delete	delete 1 alarm item
 > Delete All	delete all alarm items

Note: The alarm clock in your phone must be set while your phone is on. If you turn off the phone, the alarm clock will play an audible alert at the time you have set.

To enable/disable a predefined alarm profile:

Press	To
1 	go to the desired predefined alarm profile
2 ENABLE/Disable ()	activate the alarm clock



Note: To edit the predefined alarm profile, see the steps above.

Calculator

Find the Feature

 > More > Calculator

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

Converting Currency

Find the Feature

 > More > Calculator

 > Exchange Rate

Press	To
1 number keys	enter the exchange rate
2 OK ()	store the exchange rate
3 number keys	enter the number you want to convert
4  (left/right)	select the \$ sign
5 Select ()	convert the currency



Using the Stop Watch

Find the Feature

 > More > Stop Watch

Press	To
1 START ()	start counting the time
2 STOP ()	stop counting the time
3 RESET ()	reset the stop watch

Note: After **Stop Watch** is activated, you may press **SNAPSHOT** () to store the elapsed time for later reference. After stopping the **Stop Watch**, press  right or left to navigate through **SNAPSHOT** time 1, 2, 3, etc.



Security

Locking and Unlocking Your Phone

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

When you try to use a locked phone, it prompts you to enter the unlock code. (The default unlock code is 0000.) A locked phone still rings or vibrates for incoming calls or messages, but you must unlock it to answer.

You can make an emergency call on your phone even when it is locked.

Lock your Phone Manually

Find the Feature

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

	Press	To
1	keypad keys	enter your 4-digit unlock code
2	OK ()	lock the phone

Set Your Phone to Lock Automatically

Find the Feature

 > **Settings** > **Security**
> **Phone Lock**
> **Automatic Lock** > **On**



Press	To
1 keypad keys	enter your 4-digit unlock code
2 OK ()	set the phone to lock automatically

Unlock Your Phone

Press	To
1 keypad keys	enter your 4-digit unlock code The unlock code is originally set to 0000.
2 OK ()	unlock your phone

Changing Your Unlock Code

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

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

Find the Feature

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



Press	To
1 	scroll to the code or password you want to change
2 SELECT ()	select the code or password
3 keypad keys	enter your old code
4 OK ()	submit your old code
5 keypad keys	enter the new code
6 OK ()	assign the new code
7 keypad keys	re-enter the new code
8 OK ()	confirm the new code

If You Forget A Code Or Password

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

If you forget your unlock code, try entering 1234 or the last 4 digits of your phone number. If that does not work, do the following:

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



Protecting the SIM Card

Your PIN (Personal Identification Number) code protects the information stored on your SIM card. When the SIM PIN feature is activated, you must enter your SIM card PIN code each time you turn on the phone or insert a SIM card. Your SIM card PIN code is supplied by your service provider.

Find the Feature

 > **Settings** > **Security**
> **SIM PIN**

	Press	To
1		scroll to On or Off
2	SELECT ()	switch protection on or off
3	keypad keys	enter your SIM card PIN code
4	OK ()	submit your code



News and Entertainment



Mobile Internet

The Web micro-browser lets you to access Web pages and Web-based applications (such as on-line banking, shopping, and games) on your phone. Contact your service provider to set up access, if necessary.

Setting Up Your Phone for Mobile Internet Access

Note: Your service provider may have set up your phone for Internet access.

You can adjust the mobile Internet network connection settings, or create a new network connection profile:

Find the Feature

 > **Browser** > **Browser Setting**
> **Set Profile**

Press	To
SELECT () or Exit ()	set the profile
	navigate to the preferred profile
SELECT ()	confirm the item

**Press****To**

or

Back ()

return to previous menu

Setting up URL

Before you starting using the Web browser, first enter the URL.

Find the Feature > **Browser** > **Web Shortcut****Press****To**

(up or down)

navigate to the preferred item



confirm the item



(up or down)

choose to enter a new URL,
edit or delete the chosen item**SELECT** ()select the item you would like
to change (**Title** or **URL**)

or

Cancel ()

cancel the option

SELECT ()select the item you want to
change

or

Done ()

finish the setting



Accessing the Internet

Instead of using **Web Shortcut**, you may choose to enter the URL by yourself:

Find the Feature

 > **Browser** > **Go to URL**

Press	To
keypad keys	enter the URL
OK ()	confirm the entry and starting accessing the browser
or	
Delete ()	delete the entry
	Note: Press  to change entry method.

You can also start browsing by:

Find the Feature

 > **Browser** > **Start Browser**

Downloading Pictures, Games and Ring Tones

You can download a file such as a ring tone, wallpaper, or screensaver to your phone. To download files with the browser on a desktop computer or your phone:

Action

- 1 In the browser, go to the Web site and find the file you want.



Action

- 2 Follow the directions on the Web site to purchase the file. (Normal airtime and/or carrier usage charges apply. Payment details vary.) The site sends a text message to your phone, containing the attached file or a URL link to the file.
-
- 3 Open the message and store the file.
-

Notes:

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

Games

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

When the game is over, you can purchase more advanced game levels.

Find the Feature

☰ > Games > *game*

Press

SELECT ()

To

start the game

When the game is over, you can play again or return to the **Games** menu (depending on the game).



Press

To



pause the game session

or



end the game session and
return to the **Games** menu

Troubleshooting

Check these questions first if you have problems with your phone:

Question	Answer
How do I know if my battery is charged?	The battery level indicator should show at least 1 bar (segment) of power. If it does not, charge your phone's battery (see "Battery Use" on page 10). If the battery level indicator has 3 bars showing, then the battery is fully charged.





Question	Answer
Do you have a valid SIM card inserted in your phone?	If no SIM card is inserted in your phone, your phone displays Insert SIM when powered on. Ensure that your SIM card is properly inserted in the SIM card slot underneath the battery. The notched corner of your SIM card and should match with notched corner of the SIM card slot. The metal contacts on your SIM card should face down and make contact with the metal contacts in the SIM card slot. Also, when inserting the SIM card, use the 2 metal guides (in the SIM card slot) to position the card. If the SIM card is inserted properly, but you still see Insert SIM, contact your Service Provider, as your SIM card may be damaged and may need to be replaced.
Does the handset have a signal? Do you see a signal indicator in the display?	The signal strength indicator should show at least 1 segment. If it does not, move to an area with a stronger signal to use your phone.



Question	Answer
Is the earpiece volume too low?	While on a call, press  right.
Is the other party unable to hear you?	Your phone may be muted. Take the call off mute by making the appropriate soft key selection (see “Adjusting the Volume” on page 13). You and/or the person you are speaking with may be in a weak network coverage area. Make sure that your phone’s microphone is not obstructed.
Has the phone been damaged, dropped or gotten wet?	Dropping your phone, getting it wet, or using a non-Motorola battery charger can damage the phone. The phone’s limited warranty does not cover liquid damage or damage caused from using non-Motorola accessories.
I cannot hear my phone ring.	Ensure that your phone is not set to Silent or Vibrate . To change your phone’s Alert and Ring Tone profiles (Ring , Vibrate , Vibrate & Ring , and Silent), see page 19.

The following refer to specific problems:

Problem	Solution
My phone was stolen. To whom should I report this?	Report a stolen phone to the police and to your service provider.
I forgot my password.	See “Changing Your Unlock Code” on page 69.
I pressed the End/Power key, but nothing happened.	To turn your phone on or off: Press and hold  for 2 seconds. If your phone still does not turn on, check that its battery is charged.
The display says Insert SIM card or Check SIM Card even though I have inserted my SIM card in the phone.	The SIM card may be incorrectly inserted. Check the SIM card to make sure that it is inserted properly.
The display says SIM Blocked. How do I unblock my SIM card?	Call your service provider to obtain the PIN unblocking code.





Problem	Solution
The display says <i>Enter Unlock code</i>. How do I unlock my phone?	Enter the default unlock code, 0000, or the last 4 digits of your phone number. If you changed the default unlock code in your phone, enter the unlock code that you set.
My phone asks for an unlock code when I try to open a feature.	The application you want is locked. If you own the phone but do not know the unlock code, see “Changing Your Unlock Code” on page 69.
My phone rings even though I selected the silent or vibrate alert profile.	The ringer may be set to play a tone even though your phone is set to a silent alert profile.
I tried to place a call and heard an alternating high/low tone.	Your call did not reach the wireless system. You may have dialed the number too soon after turning the phone on. Wait until the display shows the name of your service provider before you make a call.



Problem	Solution
I cannot make/answer calls.	Make sure that you have a phone signal. Avoid electrical or radio interference, and obstructions such as bridges, parking garages, or tall buildings. Your phone may also have the Call Barring feature turned on. If you know the unlock code, you can change this setting in the security menu. (☰ > Settings > Security). Also, check and make sure your SIM card is inserted and working.
My phone has poor reception and drops calls.	Make sure you have a phone signal. Stay clear of any obstructions such as bridges, parking garages, or tall buildings.
I cannot hear others on my phone.	While on a call, adjust the volume by scrolling with the  to either the right (to increase) or to the left (to decrease) the phone volume in the earpiece. Also, make sure that your phone's earpiece is not blocked by its carrying case.
I cannot open my inbox.	SIM card is not ready for reading.
How do I see the calls I sent or received?	To see the most recent calls you dialed or received, open the list: ☰ > Recent calls > Received Calls or Dialed calls .



Problem	Solution
My phone will not dial voicemail commands, passwords, or other codes.	Your phone sends commands and passwords as DTMF tones. You can set your phone's DTMF tones to be Long or Short. If you have trouble sending numbers, check your DTMF setting. From the idle display, press:  > Settings > Other Settings > Initial Setup > DTMF. Press  to scroll to Long DTMF or Short DTMF and press Select () to confirm.
My phone's display is too light.	You can change the level of contrast in your phone display, see "Setting Contrast" on page 20.
What can I do to extend battery life?	Your battery's performance is affected by charge time, feature use, temperature changes, and other factors. You may also select Battery Save to help maximise the amount of time that your battery will last between charges (see "Setting Battery Save" on page 21).
How do I remove the battery?	Remove it by opening the back cover of the phone.



Problem	Solution
My phone is stuck and none of the buttons I push will do anything. How do I make my phone work?	You may need to reset your phone. To reset your phone (without changing any of the defaults that you currently have), remove your replaceable battery from your phone and then insert it back into your phone. This will reset your phone. You should be able to power your phone back on and use it again.

Specific Absorption Rate Data

The model wireless phone meets the government's requirements for exposure to radio waves.

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

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

Before a phone model is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does not exceed the limit established by each government for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) reported to the FCC and available for review by Industry Canada. The highest SAR value for this model phone when tested for use at the ear is 1.16 W/kg, and when worn on the body, as

described in this user guide, is 0.51 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and regulatory requirements).²

While there may be differences between the SAR levels of various phones and at various positions, they all meet the governmental requirements for safe exposure. Please note that improvements to this product model could cause differences in the SAR value for later products; in all cases, products are designed to be within the guidelines.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Web site:

<http://www.phonefacts.net>

or the Canadian Wireless Telecommunications Association (CWTA) Web site:

<http://www.cwta.ca>

1. In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
2. The SAR information includes the Motorola testing protocol, assessment procedure, and measurement uncertainty range for this product.

Index

A

accessories 9, 22
animation 8

B

Backlight 20
battery 10
 extending battery life 10
browser 72

C

Calculator 66
call
 making and answering
 13
call cost information 63
Caller ID 24
Clock 65
contrast
 display 83
Cost Tracker 63
credit information 63
cursor 20
customizing the menu 53

D

default password 25

dialed calls list 24
display 20

E

earpiece 13, 79, 82
emergency number 25
Entry Method 17
event alert 19
exchange rate 66

F

factory setting 21

G

GPRS indicator 14

H

Headset 22

I

Icon 15
ignoring a call 25
Indicator 14
indicators 77
iTAP 17

K

key
 left soft key 1
keypad volume 19

L

left soft key
 functions 1
loud right alert 14

M

maser reset 21
Master Clear 22
Menu Indicator 15
menu key 1
Message Indicator 15
micro-browser 72
microphone 1, 79
my telephone number 23

N

navigation key 1
Notepad 29
numeric text mode 17

O

Optional Accessories 9
Optional Features 9

P

profile 14

R

Redial 24
Resetting 21, 61, 62
ring alert 19
ring and vibrate alert 19
Roam Indicator 15

S

security code 21
send key 1
Show ID 24
Signal Strength Indicator 14
silent alert indicator 19
SIM Card 10
SIM PIN 8
soft keys
 illustration 1
Symbols 14

T

tap method text entry 17
telephone number 24
Text 17
time
 setting 19
timers 21

U

unlock 12

unlock code 12

V

vibrate alert 81

Volume 13

