INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:
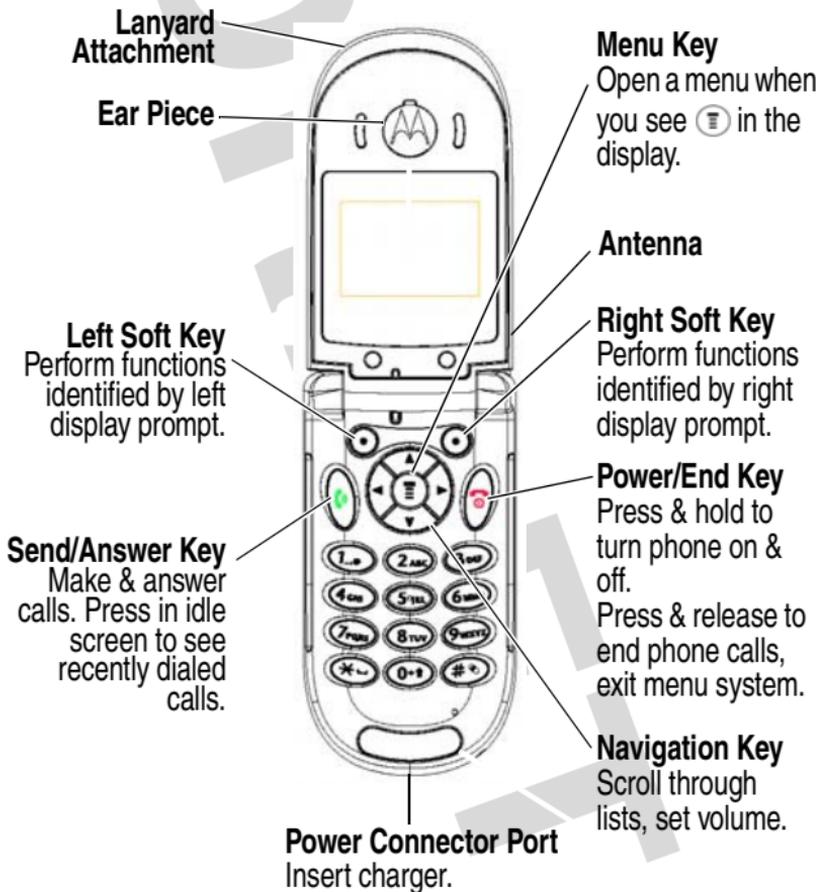
EXHIBIT 8

MOTOROLA

V170
GSM

START HERE >

Welcome

Welcome to the world of Motorola digital wireless
communications! We are pleased that you have chosen the
Motorola C170 wireless phone.

Lanyard Attachment

Ear Piece

Menu Key
Open a menu when
you see (≣) in the
display.

Antenna

Left Soft Key
Perform functions
identified by left
display prompt.

Right Soft Key
Perform functions
identified by right
display prompt.

Send/Answer Key
Make & answer
calls. Press in idle
screen to see
recently dialed
calls.

Power/End Key
Press & hold to
turn phone on &
off.
Press & release to
end phone calls,
exit menu system.

Navigation Key
Scroll through
lists, set volume.

Power Connector Port
Insert charger.

Note: Your phone may not appear exactly like the phone
shown above. However, all key locations, sequences, and
functions remain the same.

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Manual number: 6809491A02-O

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Menu Map

Main Menu

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

Notes:

- The Main Menu above represents the standard phone menu layout. You or your service provider may change feature names or the order of menu options.

- Not all features may be available for all service plans or geographical areas.

Shortcut
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**
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  - Call Cost Setup *
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  - Initial Setup
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    - Language
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    - DTMF
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    - My Network List
    - Service Tone
    - Call Drop Tone
    - Band Selection*

  - Headset
    - Auto Answer

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

Getting Started

CAUTION: Before using the phone for the first time, read the *Important Safety and Legal Information* included in the gray-edged pages at the back of this guide.

About This Manual

Optional Features

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

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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).
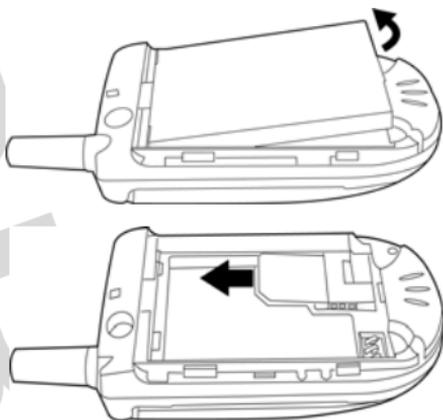
Battery Use

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 indicated by the following instructions. 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 on/off your phone, press and hold the Power/
End key ⊝. If necessary, enter your SIM card PIN code
and press ⊙.

Notes:

- 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.

- The default unlock code is set to 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. By pressing to the very left, you may mute the phone or turn the phone to the vibrate mode.

Making and Answering Calls

To make a call, enter the number with keypad keys. (Press **DELETE** (⊙) to erase the last digit, or hold **DELETE** (⊙) to erase all digits.) Press 💿 to make the call and ⊘ to end the call.

To make a call from the phonebook, see "Phonebook" on page 53.

To answer a call, press 💿 to receive the call and ⊘ to end the call.

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

Find the Feature

$\boxed{\cdot}$ > **Settings** > **In Call Setup**
> **Answer Options**
> **Multi-Key On**

Symbols on the Screen

❸ GPRS Active ❹ In use ❺ Roam ❻ Message

❷ Signal Strength

❶ Alert Type

❼ Battery Level

❽ Line Selection

10:59
Service Provider
05/06/2004

PH.BOOK ≡ MESSAGE

❾ Clock

❿ Menu
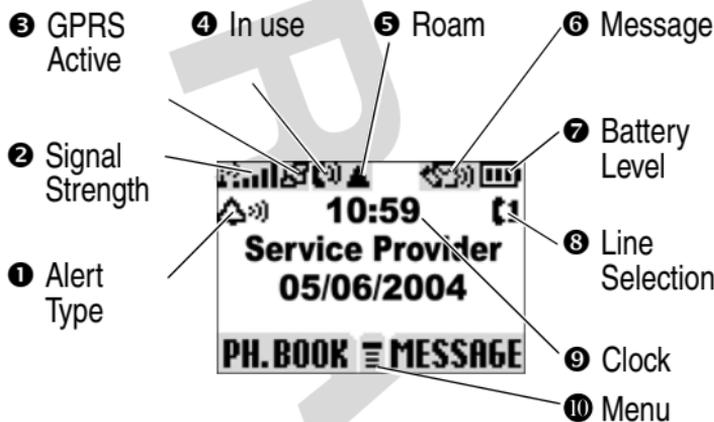
❶ **Alert Type** Shows the current selected alert profile. The default alert setting is loud ring.

❷ **Signal Strength** Shows the strength of your phone's connection with the network.

❸ **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 another network system outside your home network.

⑥ Message Appears when you have a new voice or text message waiting. Icon here can also indicate your text entry mode, alpha, numeric, symbol and etc.

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

⑧ Line Selection Displays the current line you are using, depending on the service provider.

⑨ Clock Displays the real time. (See "Setting the Time and Date" on page 20.)

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 apply the function indicated on the bottom right of the screen.

⊙ Press to apply the function indicated on the bottom left of the screen.

⒣ Make and answer calls, and view recent dialed calls.

$\widehat{\bigcirc}$ Press & hold to turn on/off the phone. Or press to end calls and exit menus.

$\circledast$ Scroll through menus/lists, and set feature values.

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

Find the Feature $\textcircled{=}$ > **Recent Calls** > **Dialed Calls**

Press $\textcircled{=}$, 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** ($\textcircled{\cdot}$) to return to the previous screen. Scroll up or down through numeric items. Press **VIEW/SELECT** ($\textcircled{\cdot}$) to see view details about a highlighted item. Press $\textcircled{=}$ to enter a sub-menu.

Entering Feature Information

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

Press **CANCEL** ($\textcircled{\cdot}$) to exit the menu without making changes.

Note: OK ($\textcircled{\cdot}$) appears when you enter information. Press it to save the information.

Press **CHANGE** ($\textcircled{\cdot}$) to edit the selected item. Also, you may scroll up or down through the 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 standard 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** ($\odot$) 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#	. 1 ? ! , @ _ & ~ : ; " - ( ) ' ¿ ¡ % £ $ ¥ ¤ €
2#	A B C 2
3#	D E F 3
4	G H I 4
5	J K L 5
6	M N O 6
7	P Q R S 7
8	T U V 8

$\boxed{9_{wxyz}}$	W X Y Z 9
$\boxed{0^{+}}$	+ - 0 x * / \ [ ] = > < # §

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

Capitalization

Press	To
$\boxed{\oplus}$ (up/down)	change words to initial character capitalized, all uppercase characters
or	
$\boxed{0^{+}}$	change words to all lowercase characters
$\boxed{*}$	add a space

Delete Letters and Words

Action

Press **DELETE** ($\boxed{\odot}$) to delete 1 letter at a time.

Press and hold **DELETE** ($\boxed{\odot}$) to delete the entire message.

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

Folding Back the Phone

Whenever you fold back your cell phone, all of the on-going operations will be canceled and the screen shows the idle screen content.

Setting Up Your Phone

Setting the Time and Date

Find the Feature $\circledR$ > Settings > Other Settings
> Initial Setup > Time and Date

Changing Personal Greetings

Find the Feature $\circledR$ > 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 $\circledR$ > 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 the time span that 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 the 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:

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 need to enter the **Security Code**.

Clearing All Information

You can reset all options to their factory settings and clear
all user entries (such as Phonebook entries and

downloaded wallpapers, main menu animation, and sounds).

Caution: This option erases all user-entered information stored in phone memory, including phonebook entries and downloaded files. Erased information cannot be recovered. This option resets all options to their factory settings except the unlock code, security code, and lifetime timer.

Find the Feature $\quad \textcircled{\scriptsize{\equiv}} >$ **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 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 $\quad \textcircled{\scriptsize{\equiv}} >$ **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 it.

Setting Your Number

From the idle display:

	Press	To
1	View ($\odot$)	change **Name** or **No.**
2	Ok ($\odot$)	confirm the change
	or	
	Cancel ($\odot$)	cancel the change

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

Viewing Your Number

When you are on a call:

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	$(\cdot)$	go directly to the dialed calls list
2	$(\cdot)$	redial the highlighted number

or

Find the Feature $\textcircled{\scriptsize{≡}}$ > Recent calls
> Received Calls, Dialed Calls, Missed Calls or NotePad

	Press	To
1	$\textcircled{\scriptsize{⊕}}$	scroll to the entry you want to call
2	$(\cdot)$	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
$\widehat{\ominus}$ or **IGNORE** ($\odot$)	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 (ι)	call the emergency number

Dialing International Numbers

To dial the local international access code:

Action

Press (o-i) for 2 seconds to insert the international access code "+", then enter in the country code for the country that you would like to connect to (for example, +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. **p** shows, then **w** shows later in the display:

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

Option	Description
Iqvhuw#Z dlw# +bqvhuw#dl#**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. Entries are sorted from newest to oldest. The oldest entries are deleted as new ones are added. Each entry includes the number (or name, if available) and whether the call connected or not. You can call, store, or delete the numbers on these lists.

Shortcut: Press $(\cdot)$ to go directly to the dialed calls list from the idle display.

To open the recent calls menu:

Find the Feature $\quad$ $\circledast$ > **Recent Calls**

	Press	To
1	$\circledast$	scroll to **Received Calls**, **Dialed Calls**, or **Missed Calls**
2	**SELECT** $(\odot)$	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	$\odot$	call the entry's number
	or	
	View ($\odot$)	see the entry's details
	or	
	Back ($\odot$)	return 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** ($\odot$)	see the **Missed Calls** list, beginning with the most recent call
2	$\textcircled{\scriptsize\equiv}$	scroll through the list and select a call that you want to view
3	$\odot$	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 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 $\quad$ ⊜ > **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/Change 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 $\quad$ ⊜ > **Messages** > **Voicemail**
$\qquad\qquad\qquad\qquad\qquad$ ⊜ > **Voicemail Setup**

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

Receiving a New Voicemail Message

When you receive a voicemail message, your phone displays the new voicemail notification message and the voicemail indicator. (Some networks only indicate when you have messages, whether they are new or not.) If you 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 $\quad$ $(\bar{\equiv})$ > **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, refer to "Storing a phonebook entry" on page 53.

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 the 1-touch dialing locations 1-9. 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

You can dial pre-programmed numbers stored on your phone. 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 $\boxed{\equiv}$ > Quick Dial

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

To change your quick dial numbers:

Find the Feature $\boxed{\equiv}$ > 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** (•)	choose the entry
	or	

	Press	To
	Exit $\odot$	exit the entry
3	$\circledcirc$	select **Status**, **On** to **Off**
4	Select $\odot$	confirm the choice
	or	
	Back $\odot$	return to the previous screen

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	$\langle\circ\rangle$	call the number
3	Hold ($\odot$)	put the 1st call on hold
	or	Your phone displays a flashing phone indicator next to the call on hold.
	$\textcircled{\tiny\textbf{=}}$ > Hold ($\odot$)	
4	keypad keys	dial the next person's number

	Press	**To**
5	$\left(\!\!\left(\bullet\right)\!\!\right)$	call the number
		Your phone displays an active call indicator next to the new active call.
6	**LINK** $(\odot)$	connect the 2 calls
7	$\textcircled{\scriptsize\textcircled{}}$	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 $\textcircled{\scriptsize=}$ > **Settings** > **Security** > **Call Barring**

	Press	**To**
1	$\textcircled{\scriptsize\textcircled{}}$	scroll to **Outgoing** or **Incoming calls**
2	**SELECT** $(\odot)$	select barring for **Outgoing** or **Incoming** calls
3	$\textcircled{\scriptsize\textcircled{}}$	scroll to a restriction for the barred calls
4	**SELECT** $(\odot)$	select the restriction for the barred calls
5	keypad keys	enter your call barring password (from your network service provider)

Calling Features

Press	To
6 OK (⊙)	submit your password

Putting a Call on Hold

When you are on a call:

Action

Press **Hold** (if available).

or

Press ⑦ > **Hold**.

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

Lock/Unlock the Keypad

To lock or unlock the keypad in idle mode, press the menu key ⑦ and then the ⊛ key.

Auto Key Lock

To automatically lock the keypad keys:

Find the Feature   ⑦ > **Settings** > **Security**
> **Auto Key Lock**

Press	To
1 ⊚ (up or down)	go to the preferred mode

	Press	To
2	SELECT ($\odot$)	confirm the selection
	or	
	Exit ($\odot$)	exit the option

Messages and Chat

Text messages are brief messages that you can send and receive (such as **Where are we meeting?**). Received messages appear on your phone display or in your text message inbox.

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 $(\bar{\equiv})$ > **Messages**
$(\bar{\equiv})$ > **Text Msg Setup**

	Press	To
1	$(\widehat{\odot})$	scroll to **Message Centre**
2	**Select** ($\odot$)	change the **Service No.**, which is provided by your service provider

	Press	**To**
3	keypad keys	enter the phone number for the service centre that handles your outgoing messages
4	**OK** ($\odot$)	store your service centre number

Sending Messages, Pictures, and Sounds

You can send text messages and pictures or sounds to 1 or more recipients. You can manually enter each recipient's phone number, or you can select 1 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 $\qquad$ $\boxed{\equiv}$ > **Messages**
$\boxed{\equiv}$ > **Create Message**
or > **Create** > **SMS/EMS**

	Press	**To**
1	**SELECT** ($\odot$)	go to **Create** to start message editing

	Press	To
2	**SELECT** (⊙)	go to **SMS/EMS** to enter the text message
	or	
	(☰)	to insert a picture, animation, or sound file in the message, press:
		(☰) > **Insert** > *object type* > *object*
		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?**.

Press	To
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 messages), 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.
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 messages
Create Message	Create a new message.

Using Browser Messages

Your network server can send you browser messages.

Find the Feature
🖲 > **Messages**
> **Browser Messages**

Sending Quick Notes

To insert a quick note:

Find the Feature $\circledast$ > Messages > Quick Notes

To edit a quick note:

	Press	To
1	READ ($\odot$)	select and create the desired note
2	SEND ($\odot$)	send the note
	or	
	DELETE ($\odot$)	delete the note
	or	
	keypad keys	edit the note
3	SELECT ($\odot$)	enter a phone number
	or	
	$\circledast$	select the number from Phonebook
4	OK ($\odot$)	confirm the number
5	YES ($\odot$)	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.

Messages and Chat

Note: The feature depends on your service provider.

Find the Feature $\boxed{\textbf{≡}}$ > **Messages** > **Info Services**

Using Instant Messaging

Use Instant Messaging to exchange messages in real time with other wireless phone users. The messages you send display immediately on the other users' phones.

Logging In to IM

Find the Feature $\boxed{\textbf{≡}}$ > **IM** > **Log In**

	Press	**To**
1	keypad keys	enter your **IM ID**
2	**OK** ($\odot$)	submit your **IM ID**
3	keypad keys	enter your **Password** (case-sensitive)
4	**OK** ($\odot$)	submit your **Password**
		Tip: To log in automatically next time, scroll to **Offline Settings** > **Auto Login** after you submit your password.
5	$\textcircled{·}$ up or down	scroll to the **Contact List**
6	**Select** ($\odot$)	view the **Contact list**

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

- **Conversations** display first. These are online IM users having active conversations with you. Press **VIEW** ($\odot$) to open your conversation with them.

- **Online Contacts** are logged in to IM. Press **SEND IM** ($\odot$) to send the person a message. A busy indicator shows that someone is busy and unable to respond.

- **Offline Contacts** are logged out of IM. An alert indicator shows that you have set an alert for the person. You can press **SEND IM** ($\odot$) to send a message, in case the person has logged in since you refreshed your list.

Note: To refresh your **Contact List**, press **Refresh List** while viewing the list.

Sending and Receiving Instant Messages

When you log in to IM, you can exchange messages with other IM users.

	Press	To
1	$\langle\!\langle\hat{\cdot}\rangle\!\rangle$ up or down	scroll to a name on the **Contact List**
2	**SEND IM** ($\odot$) **or** **VIEW** ($\odot$)	start a conversation with the person or open a conversation in progress
3	keypad keys	enter message text
4	**SEND**	send the text message text

Messages and Chat

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

	Press	To
1	**Back**	return to the **Contact List**, where you can open more conversations.
2	(≡)	return to the home screen, without logging out of IM or closing the conversation. **Note:** Your phone displays New IM if you receive a message while on the home screen or in another application
3	(≡) > **Contact Info**	view the screen name and online status of the person in this conversation
4	(≡) > **Add Contact**	add the screen name to your **Contact List**
5	(≡) > **End Conversation**	end the conversation

Note: If you log out of IM, you can still view the conversation text by pressing (≡) > **IM** > **Offline Convs.** from the home screen. Turning off your phone erases the conversation.

Setting Your Online Status

When you log in to IM, your online status is visible to other IM users. To set your online status:

	Press	**To**
1	up or down	scroll to **My Status**
2	**SELECT** (•)	select the option
3	up or down	scroll to **Available**, **Busy**, or **Invisible**
4	**SELECT**	select the status setting

Setting Up IM

Adding and Removing Contacts

To add a name, open your **Contact List** or a conversation and press ⓘ > **Add Contact**. If you are not in a conversation, enter the new screen name and press **OK** (•). IM returns an error if it cannot verify the name on the server.

To remove a name form your **Contact List**, highlight the name and press ⓘ > **Delete Contact**.

Setting an Alert for Offline Contacts

To receive notification when someone logs in to IM, highlight the name in your **Contact List** and press ⓘ > **Set Online Alert**.

Setting Your Busy Message

If you are logged in to IM but not responding to new messages, you can set the busy indicator to display next to your name in everyone else's **Contact List**. From the **IM Online** menu, select **My Status** > **Busy**.

To create or edit a busy message that is automatically sent to IM users attempting to contact you, select **Busy Message** from the **IM Online** menu.

The **IM Online** menu displays when you log in and when you press **BACK** from your **Contact List**.

Setting Your IM Alert

IM can sound an alert when new messages arrive or when a person for whom you have set an alert logs in to IM.

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

Logging Out of IM

Select **Log Out** from the **IM Online** menu.

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 $(\bar{\mathbb{E}})$ > **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

Note: 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.

Messages and Chat

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Review Chat History

You can see chat history from:

Find the Feature $(\bar{\equiv}) >$ **Chat** > **History**

Clear History

You can clear chat history as follows:

Find the Feature $(\bar{\equiv}) >$ **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** ($\odot$)	accept the chat session
2	**IGNORE** ($\odot$)	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
2	**CHANGE** (⊙)	select **Name**

	Press	To
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 number to speed dial the entry
		The next available speed dial number is assigned to a new phonebook number 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 entry you want
ⓒ	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 $\circledast$ > **Phonebook**

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

Deleting a Phonebook Entry

Find the Feature $\circledast$ > **Phonebook**

	Press	**To**
1	$\circledast$	scroll to the entry you want to delete
2	$\circledast$	open the phonebook menu
3	$\circledast$	scroll to **Delete**
4	**SELECT** ($\odot$)	select **Delete**
5	**YES** ($\odot$)	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** ($\odot$)	select **Capacity**
		Your phone displays the number of SIM card phonebook entries available.

Personalizing Your Phone

Customizing Menus

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

Find the Feature $\textcircled{\scriptsize{\textsf{\textbf{≡}}}}$ > Settings > Other Settings
                     > Personalize > Main Menu

	Press	**To**
1	$\textcircled{\tiny{⬡}}$	scroll to the menu item you want to move
2	**GRAB** ($\textcircled{\scriptsize{•}}$)	select the menu item you want to move
3	$\textcircled{\tiny{⬡}}$	move the item up or down the menu
4	**Insert** ($\textcircled{\scriptsize{•}}$)	insert the item in the new location

Redefining Soft Keys

Find the Feature $\equiv$ > Settings > Other Settings
> Personalize > Keys

	Press	To
1	⊙	scroll to Left or Right
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 $\equiv$ > 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 $\equiv$ > Settings > Other Settings
> Personalize > Screen Saver

Personalizing Your Phone

Press	To
🔘	select the **Animation** that appears when your phone is idle or select **Idle Time** to set how long your phone must be idle before the screen saver picture appears
	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**

Customizing a Banner

Your can customize your banner so that it will display under the name of your service provider on your screen.

Find the Feature $(\equiv) >$ Settings $>$ Other Settings $>$ Personalize $>$ Banner

	Press	**To**
1	keypad keys	enter the wording you want to display for your banner
2	OK ($\odot$)	confirm the entry
	or	
	DELETE ($\odot$)	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	$(\equiv)$#	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
$\circledR$ > **MyMenu**
> *the feature you want*

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

Adding a MyMenu Shortcut

	Press	To
1	$\circledR$	enter the menu system
2	$\circledS$	highlight the menu item
3	press and hold $\circledR$	open the **MyMenu** editor
		The phone displays **Assign MyMenu for:**"*Item*"?, where *Item* is the name of the item you selected.
4	**Yes** ($\odot$)	view your options

	Press	To
5	**CHANGE** ($\odot$)	change the **MyMenu** key number, if necessary
	or	
	DONE ($\odot$)	select the **MyMenu** key number and close the editor

Downloading Ring Tones

You can download ring tones from the browser. For details, see "Mobile Internet" on page 78.

Getting More Out of Your Phone

Dialing Options

Fixed Dialing

When you activate the fixed dial feature, persons who use your phone can call only 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, from your network service provider.

Find the Feature
$(\equiv)$ > **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
$(\equiv)$ > **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 $(\overline{\ast}) > $ **Messages** $>$ **Inbox**

	Press	To
1	⊙	scroll to the message with the desired number
2	$(\overline{\ast})$	open the menu options of the desired number
3	⊙	scroll to **Call Back**
4		call the number
	or	**or**
5	**CALL** $(\odot)$	call the number
	or	
	Back $(\odot)$	return to the previous menu

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

Sending DTMF Tones

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

Find the Feature $(\overline{\ast}) > $ **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 $\circleddash$. 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 $\circledcirc$ > **Recent Calls** > **Call Times**

	Press	To
1	$\circledcirc$	scroll to the timer you want to view
2	**SELECT** ($\odot$)	view the recorded time

To reset a call timer:

	Press	To
1	**RESET** ($\odot$)	reset the time if available
2	**YES** ($\odot$)	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 $\equiv$ > **Recent Calls** > **Call Cost**

	Press	To
1	$\circledcirc$	scroll to the cost tracker you want to view
2	**SELECT** ($\odot$)	view the recorded cost

To reset the call tracker:

	Press	To
1	RESET ($\odot$)	reset all the cost (if available)
2	OK ($\odot$)	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 form 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 Call**s may not equal **All Calls**.

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

Network Features

Network Selection

Find the Feature $\circledtext{e} >$ **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 $(\bar{\imath}) >$ **Alarm Clock**

Alarm Clock	Description
$(\bar{\imath}) >$ **SELECT** ($\odot$) **[New Alarm]**	create/edit alarm item
	Alarm content list: **Name:**, **Time:**, **Alert:**, **Volume:**
$(\bar{\imath}) >$ **Edit**	same as above
$(\bar{\imath}) >$ **Delete**	delete 1 alarm item
$(\bar{\imath}) >$ **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	$(\hat{\circ})$	go to the desired predefined alarm profile
2	**ENABLE/DISABLE** ($\odot$)	activate the alarm clock

Note: To edit the predefined alarm profile, please refer to the steps described 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)	go to the $ sign.
5	SELECT (⊙)	convert the currency.

Personal Organizer Features

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 can press **SNAPSHOT** (⊙) to store the elapsed time for later reference. After stopping the **Stop Watch**, you can press (⊙) right or left to navigate through **SNAPSHOT** time 1, 2, 3... and 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 asks 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 emergency call on your phone even when it is locked.

Lock Your Phone Manually

Find the Feature $\circledast$ > Settings > Security > Phone Lock > Lock Now

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

Set Your Phone to Lock Automatically

Find the Feature $\circledast$ > Settings > Security > Phone Lock > Automatic Lock > On

	Press	To
1	keypad keys	enter your 4-digit unlock code
2	OK ($\odot$)	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 ($\odot$)	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 other users from accessing your personal information or modifying your phone settings. The unlock code must contain 4 digits, and the security code must contain 6 digits. Be sure to make a note of the new numbers.

Find the Feature
$\quad$ $\equiv$ > Settings > Security > New Passwords

Security

	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

$\qquad$ $\boxed{\Xi}$ > Settings > Security
> SIM PIN

	Press	To
1	$\textcircled{\scriptsize\textcircled{$\cdot$}}$	scroll to On or Off
2	SELECT ($\odot$)	switch protection on or off
3	keypad keys	enter your SIM card PIN code
4	OK ($\odot$)	submit your code

News and Entertainment

Mobile Internet

The Web micro-browser lets you 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 $\textcircled{\tiny I}$ > Browser > Browser Setting > Set Profile

Press	To
SELECT ($\textcircled{\tiny\bullet}$)	set the profile
or	
Exit ($\textcircled{\tiny\bullet}$)	exit the option
$\textcircled{\tiny\textcircled{\tiny\bullet}}$	navigate to the preferred profile

Press	To
SELECT ($\odot$)	confirm the item
or	
BACK ($\odot$)	return to the previous screen

Setting Up the URL

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

Find the Feature $\textcircled{\scriptsize{\equiv}}$ > **Browser** > **Web Shortcut**

Press	To
$\textcircled{\cdot}$ (up or down)	navigate to the preferred item
$\textcircled{\cdot}$	confirm the item
$\textcircled{\cdot}$ (up or down)	choose to enter a new URL, edit or delete the chosen item.
SELECT ($\odot$)	select the item you would like to change (**Title** or **URL**)
or	
Cancel ($\odot$)	cancel the option
SELECT ($\odot$)	select the item you would like to change
or	
Done ($\odot$)	finish the setting

Accessing the Internet

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

Find the Feature $\circledast$ > Browser > Go to URL

	Press	To
1	keypad keys	enter the URL
2	OK ($\odot$)	confirm the entry and begin accessing the browser
	or	
	Delete ($\odot$)	delete the entry
		Note: press $\circledast$ to change entry method.

In addition to the above 2 methods, you may start browsing by:

Find the Feature $\circledast$ > Browser > Start Browser

Downloading Pictures, Games and Ring Tones

You can download a file such as 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.

2 Follow the directions on the Web site to purchase the file (payment details vary). The site sends a text message to your phone, containing the attached file or a URL link to the file.

3 Open the message and store the file.

Notes:

- Call charges apply during download sessions.

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

Games

Your phone comes with 3 games. If you receive 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 $\qquad$ (≡) > **Games** > *game*

Press	To
SELECT ((•))	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 game menu

Using My Tones

My Tones allows you to create custom alert tones for your phone. The tones you create appear in the list of available alerts.

Creating a Tone

Find the Feature ⊜ > Ring Style > My Tones

Press		To
1	🕹 up or down	scroll to [New Tone]
2	EDIT (⊙)	go to Tone Details
3	CHANGE (⊙)	select Notes:
4	keypad keys	enter notes for the tone
5	OK (⊙)	store the notes
6	CHANGE (⊙)	select Name:
7	keypad keys	enter the name for the tone
8	OK (⊙)	store the name
9	DONE (⊙)	store the tone

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Entering Notes

To create a new tone, use the keypad keys to enter each note. Press a key multiple times to cycle through its available notes or options (pitch, octave, or length). The default setting for a new tone is a quarter note in octave 2.

Key	Display	Description
1	**1**	set octave 1
	2	set octave 2
	3	set octave 3
2ABC	**A**	note A
	B	note B
	C	note C
	2	set octave 2
3DEF	**D**	note D
	E	note E
	F	note F
	3	set octave 3
4GHI	**G**	note G
	R	rest
7PQRS	**#**	sharp
	B	flat
0+	**Q**	quarter note or quarter rest
	H	half note of half rest
	W	whole note or whole rest

Key	Display	Description
(*⌣)		move cursor left
(#⚬)		move cursor right

Enter a note as follows:

Task	Action
Change the octave	Set the new octave (**1**, **2** or **3**) before selecting the note. The new octave applies to the note and all following notes until you change it again.
Select the note (required)	Press a keypad key to enter a note.
Change a note to a sharp or flat	Enter a sharp or flat (**#** or **♭**) after selecting the note.

Some sharps and flats are played as standard notes. For example, **B#** is the same as **C**. Press ⊙ up or down to scroll to valid notes when entering a new note. |

Task	Action
Change a note's length	Set the new length (**h**, **w**, or **q**) after selecting the note. The new length applies to the note and all following notes until you change it again.
Add a rest	Enter one or more rests (**R** characters) as needed in the tone sequence. You can set the length of the rest by entering an **h**, **w**, or **q** character after the rest, just as you can for a note.

Example

Press these keys to play this sequence of notes and rests in octave three: **C** (quarter note), **E flat** (quarter note), **half rest**, and **G** (whole note):

Press	To	Display
1 1 1	set octave three	**3**
2ABC 2ABC 2ABC	enter a quarter note **C**	**C**
3DEF 3DEF 7PQRS 7PQRS	enter a quarter note **E flat**	**Eb**

Press	To	Display
④ ④ ⑩ ⑩	enter a **half rest**	**Rh**
④ ⑩ ⑩ ⑩	enter a whole **note G**	**Gw**

Playing a note

Find the Feature ⧉ > **Ring Style** > **My Tones**

	Press	To
1	⊙ up or down	scroll to the tone you want to play
2	⧉	open **My Tones Menu**
3	⊙ up or down	scroll to **Play**
4	**SELECT** (⊙)	select **Play**
		The phone displays the playback meter and plays the tone.
5	**Play** (⊙)	play the tone again
	or	
	Back (⊙)	return to the my tones list

Editing a Tone

You cannot edit the standard alert tones included with your phone. To edit a custom tone that you created:

Find the Feature ⧉ > **Ring Style** > **My Tones**

Press		To
1	(⊙) up or down	scroll to the tone you want to edit
2	**EDIT** ((⊙))	open the tone details
3	(⊙) up or down	scroll to the details you want to edit (**Name** or **Notes**)
4	**CHANGE** ((⊙))	select the details you want to edit
5	keypad keys	enter new text or notes
6	**OK** ((⊙))	store the details

Deleting a Tone

You cannot delete the standard alert tones included with your phone. To delete a custom tone that you created:

Find the Feature   (☰) > **Ring Style** > **My Tones**

Press		To
1	(⊙) up or down	scroll to the tone you want to delete
2	(☰)	open **My Tones Menu**
3	(⊙) up or down	scroll to **Delete**
4	**SELECT** ((⊙))	select **Delete**
5	**YES** ((⊙))	confirm the deletion

Troubleshooting

Check these questions 1st 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, recharge your phone's battery (see "Charging Your Phone's Battery" on page 11). If the indicator shows 3 bars, then your phone's battery is fully charged.

Question	Answer
Do you have a valid SIM card inserted in your phone?	If no SIM card is present in your phone, your phone should display **Insert SIM** when it is powered **ON**. Ensure that your SIM card is properly inserted in the SIM card slot beneath the battery. The notched corner on the SIM card and it should match the notched corner of the SIM card slot. The metal contacts on the SIM card should face down and make contact with the metal contacts in the slot. Also, when inserting the SIM card, use the 2 metal guides in the slot to properly position the SIM card.
	If the SIM card is inserted properly, but you are still see **Insert SIM**, then 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 showing in the display?	The signal strength indicator should include 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. See "Adjusting the Volume" on page 13.
	Also, 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 can't hear my phone ring.	Ensure that your phone is not set to **Silent** or **Vibrate** (see page 20).

The following referring 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.

Problem	Solution
I forgot my password	See "Changing Your Unlock Code" on page 75.
I pressed the End/Power key, but nothing happened.	To turn your phone on or off: Press and Hold $\odot$ for 2 seconds. If your phone is still not turned on, check your phone's battery charge.
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. 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.
The display says Enter Unlock code. 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 defined to unlock it.

Problem	Solution
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 75.
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 making 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. $\cdot$ $\textcircled{\scriptsize\textsf{≡}}$ > **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 $\textcircled{\scriptsize\textcircled{}}$ 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: $\textcircled{\scriptsize\textsf{≡}}$ > **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 page 21).
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 maximize the amount of time that your battery will last between charges (see "Setting Battery Save" on page 22).
How do I remove the battery?	Remove the battery 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 and you should be able to power your phone back on and use it again.
Why is my Scroll Marquee Screen Saver is all black?	You must input characters or sentence to let it run.

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 1.13 W/kg, and when worn on the body, as

described in this user guide, is 0.45 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.

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U.S. patent Re. 34,976

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