

APPLICANT: MOTOROLA, INC.

FCC ID: IHDT56EV1

INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows:



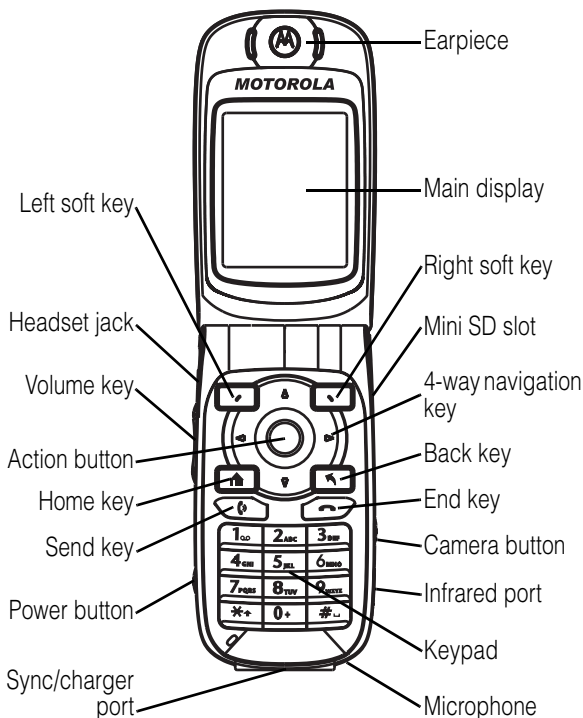
MOTOROLA

MPx220
GSM

START HERE >

Welcome

Welcome to the world of Motorola MOTOPro devices. Your Motorola MPx220 wireless phone delivers to you simplified communications, increased productivity and the control to develop a superior mobile experience whether at work, at home, on the road or at play.



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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.

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Manual number: _____

Menu Map

This is the default menu on your Motorola phone. It can be accessed by pressing **Start**  from the Home screen of your phone.

Main Menu Display

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

Messaging

- Text Messages
- Outlook E-Mail *
- Media Messages *

Contacts

Calendar

Internet Explorer *

ActiveSync

Call History

MSN Messenger *

Settings

- Phone *
- Sounds
- Profiles
- Home Screen
- About
- Accessibility
- Beam
- Bluetooth

- Certificates
- Data Connections
- Date and Time
- Owner Information
- Power Management
- Regional Settings
- Remove Programs
- Security
- Phone Settings

Camera

Favorites Manager

File Manager

File Viewer

Game Room

Media Manager

MMSSettings *

PhotoAlbum

Pocket MSN *

* Optional network, SIM card, or subscription-dependent feature.

The voice recognition application works only via the phone directly or a wired headset attached to the phone, but not with a Bluetooth® headset.

Resource Manager

- Task Manager
- Space Manager

Speed Dial

Tasks

Speech Recognition

Voice Recorder

Windows Media

Accessories

- Calculator
- Camcorder
- Modem Link
- Video Player

Games

- Jawbreaker
- Solitaire

Shortcuts

Go to dialed calls list:

Press  (in idle).

Use Speech Recognition or Voice Recorder:

Press and hold  up or down (in idle).

Take photos:

Press **Start**  > **More** > **Camera**, and then press .

Open Quick List:

Press and hold  (in idle).

Exit menu system:

Press .

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Safety and General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION.
READ THIS INFORMATION BEFORE USING YOUR PHONE.

The information provided in this document supersedes the general safety information in user guides published prior to December 1, 2002.

Exposure To Radio Frequency (RF) Energy

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

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

Operational Precautions

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

External Antenna Care

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

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

Phone Operation

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

Body-Worn Operation

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

Data Operation

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

Approved Accessories

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

RF Energy Interference/Compatibility

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

Facilities

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

Aircraft

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

Medical Devices

Pacemakers

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

Persons with pacemakers should:

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

Hearing Aids

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

Other Medical Devices

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

Use While Driving

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

When using your phone while driving, please:

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

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

www.Motorola.com/callsmart.

Operational Warnings

For Vehicles With an Air Bag

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

Potentially Explosive Atmospheres

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

Note: The areas with potentially explosive atmospheres referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or

particles, such as grain, dust, or metal powders. Areas with potentially explosive atmospheres are often but not always posted.

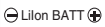
Blasting Caps and Areas

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

Batteries

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

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

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

Seizures/Blackouts

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

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

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

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

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

Repetitive Motion Injuries

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

- Take a minimum 15-minute break every hour of game playing.
- If your hands, wrists, or arms become tired or sore while playing, stop and rest for several hours before playing again.

- If you continue to have sore hands, wrists, or arms during or after play, stop playing and see a doctor.

DRAFT

European Union Directives Conformance Statement



Hereby, Motorola declares that this product is in compliance with

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

IMEI: 350034/40/394721/9

CE0168

Type: MC2-41H14

Product
Approval
Number

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

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

Getting Started



What's in the Box?

Your wireless mobile phone comes with a battery, travel charger, USB data cable, mono headset, companion CD, user manual, product and service user data, and cables*. You can purchase other accessories to customize your phone for maximum performance and portability.

To purchase Motorola Original™ accessories, contact the Motorola Customer Call Center at 1-800-331-6456 in the United States or 1-800-461-4575 in Canada.

Note: Additional accessories may be available depending on product promotions.

* In-box content may vary by Regions.

About This Guide

This user guide describes how to use your Motorola phone to its maximum potential.

Note: In this user's guide, "Find the Feature" always indicates the feature's position from the Home screen.

Optional Features



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

Optional Accessories

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



Installing the SIM Card

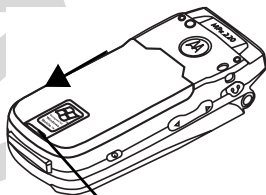
Your Subscriber Identity Module (SIM) card contains your phone number, service details, and phonebook/message information. It is stored in a recess in the battery compartment.

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

Action

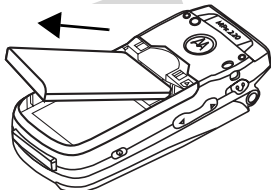
- 1 If the phone's battery door is already in place, push down the battery door release latch and lift the battery door off the phone.

Note: Turn off your phone every time when you remove/insert the SIM card.



Latch

- 2 Lift the battery up from the bottom end and remove it from the phone.

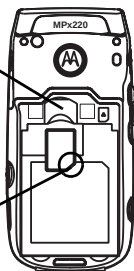


Action

- 3 Hold the SIM card with the gold contact side facing down and the cut corner on the bottom right. Slide the SIM card all the way into the SIM card holder.

SIM card holder

Cut corner



Installing the Battery

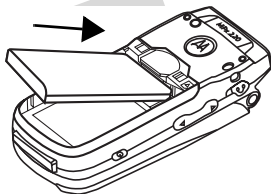
You must install and charge the battery to use your phone.



™ Your phone is designed to use only Motorola Original™ batteries and accessories

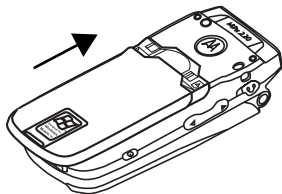
Action

- 1 Insert the battery into the back of the phone, with the contacts on the top end of the battery in alignment with the contacts on the phone. Push the bottom end of the battery into the phone until it clicks into the compartment.



Action

- 2 Place the battery cover back on the phone, aligning the tabs on the cover with the groove on the phone. Slide the battery cover in the direction shown until it locks into place.



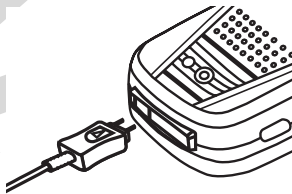
Charging the Battery

New batteries are partially charged. Before using your phone, charge the battery as described below. Some batteries perform best after several full charge/discharge cycles.

Action

- 1 Plug battery charger connector into the sync/charger port.

Note: The connector is keyed and can only be inserted 1 way.



- 2 Plug the other end of the charger into the electrical outlet.

Notes:

- When you charge the battery, the battery power level indicator in the external display shows how much of



the charging process is complete. At least 1 segment of the battery power level indicator must be visible to ensure full phone functionality while charging. You can use the phone during the charging process. However, the battery will take longer to fully charge.

- Your phone will indicate a full charge before 24 hours have passed, however, allow your phone to charge for the full 24 hours before 1st use.
- When battery power is low, a low battery message displays. Charge the battery immediately.
- If battery power is completely drained, the phone turns off automatically.
- **The charging indicator may take several minutes before appearing in the external display.**

Battery Use

To maximize your battery's performance:

- Always use Motorola Original™ batteries and battery chargers. The phone warranty does not cover damage caused from using non-Motorola batteries and/or battery chargers.
- Battery life would be shorter than normal if users play games or use phones in low signal strength areas.
- Maintain the battery at or near room temperature when charging.



- Do not expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your vehicle.
- When you do not intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- Over time, batteries gradually wear down and require longer charging times. This is normal. If you charge your battery regularly and notice a decrease in talk time or an increase in charging time, then it is probably time to buy a new battery.



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

Turning Your Phone On/Off

Press	To
Power (⏻)	turn on or off your phone

Adjusting Volume

Press	To
1  up/down	increase/decrease earpiece volume in idle or during a call Note: You can adjust the volume only when the phone flip is opened.
2 Action (○)	save the setting

Tip: When a call is ringing/incoming, press  to mute the ring.

Making a Call

There are several ways to make a call. The easiest way is to dial a phone number from the Home screen.

Press	To
1 keypad keys	enter the phone number Tip: Press Back  to delete the last digit; press and hold Back  to delete all digits.
2 Send 	make the call
3 End 	end the call

Tip: To enter an extension, press and hold  to insert a “P” (pause character); then enter the extension following it.





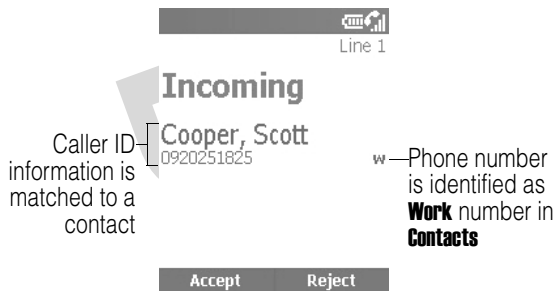
Tip: To make an international call, press and hold  to insert a “+”; then enter the country code, area code (omitting the starting 0), and phone number following it. Some international calls require a 3-second pause in the dialing sequence for the call to process successfully. Follow the steps:

Find the Feature **Start**  > **Contacts**

Press	To
1 	scroll to a desired entry
2 Action 	select the entry
3 	scroll to a desired phone number
4 Edit 	edit the phone number
5  left/right	move the cursor between the numbers where you want to insert a 3-second pause
6 Menu 	open the options menu
7 	scroll to Insert Pause
8 Action 	insert a 3-second pause
9 Done 	save the setting

The letter “p” appears where the 3-second pause will occur in the dialing sequence. You can also add a “p” via text entry.

Answering a Call



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

Press	To
1 Send 	answer the call
or	
Accept 	
2 End 	end the call

Tip: When **Flip Answer** is active, open the flip to answer the call. (To activate, see “Using Advanced Phone Settings” on page 95.)

Tip: When **Any key answer** is active, press any of the keys except **End**  to answer the call. (To activate, see “Using Phone Settings” on page 88.)

Learning to Use Your Phone

Using the Internal Display

The Home screen (shown) is the standard display when you are not on a call or using the menu.

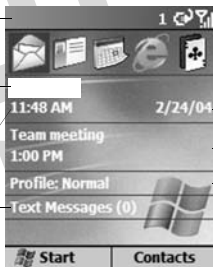


Status indicators

Service provider

Current time

Number of unread messages



Current date

Next appointment

Ring type or volume profile

On the Home screen, you will find:

- The top of the display shows status indicators about your phone's current mode.
- The center of the display shows the Home screen, as well as icons, appointments, other types of information, and messages.
- The bottom of the display shows the soft key commands.

Note: The display shown may be different based on the specific Home screen configuration chosen.

Status indicators display at the top of your phone's internal screen. The following table lists common status indicators and their meanings.

Icon	Meaning	Icon	Meaning
	New email or SMS		GPRS available
	New voicemail		GPRS in use
	New instant message		Roaming
	Voice call active		Sync error
	Data call active		Radio off
	Call forwarding		Ringer off
	Call on hold		Speaker
	Missed call		Multi-Tap text input mode, lowercase
	Battery level		Multi-Tap text input mode, uppercase
	Low battery		Multi-Tap text input mode, caps lock
	Battery charging		ITAP text input mode, lowercase
	No battery		ITAP text input mode, uppercase
	Signal strength		ITAP text input mode, caps lock
	No signal		Numeric input mode



Using the External Display



The following table lists the icons and their meanings that appear on the external display.

Icon	Meaning	Icon	Meaning
	Signal strength		Battery level
	Call in progress		Battery low
	Data call active		No battery
	No signal		Charging
	Radio off		Ringer off
	You have unread new message(s)		Speaker
	You have missed call(s)		GPRS in use
	Call forwarding		Roaming
	New instant message		

When enabled, the external display shows the incoming photo Caller ID (see “Taking Pictures” on page 160).

Your phone’s display may differ based on the specific external LCD style chosen (see “Using Advanced Phone Settings” on page 95).

Using the Home Key

Use the Home key to do the following:

- From the Home screen, press and hold **Home** (🏠) to access the **Quick List**, or quickly press and release **Power** (⏻). The **Quick List** displays a list of available profile types and commands, such as turn off your phone, turn on/off the **Flight mode** feature, lock your phone's keypad, and lock your phone.

Note: Be aware that when the **Flight mode** feature is turned on, then your phone cannot receive and make a call, including an emergency call. In order to receive and make a call, you must turn off the **Flight mode** feature and re-engage your phone's RF capability. Always obey the instructions of your airline crew.

- Display the Home screen to dial a number.
- The Home screen is your starting place for most tasks. You can easily navigate to any program or setting from this screen. The top of the Home screen displays the last 10 icons you browsed. Just select a program and press **Action** (○) to open the program. You can also press **Start** (⏻) to enter the programs on the Start list. The Home screen also displays the current time and date, your next appointment, your current profile, and the number of unread messages in **Messaging**. Select your next appointment and press **Action** (○) to open **Calendar**, and you can see all of your appointments for the day. To view **Messaging**, select the messaging status showing the number of unread



messages you have, and press **Action** (○). To view **Contacts**, press **Contacts** (☎) .

- The Home screen automatically displays when you turn on the phone or leave the phone idle, but you can navigate to it at any time by pressing **Home** (🏠) .
- To change Home screen settings, see “Changing the Home Screen” on page 94.

Using the 4-Way Navigation Key

Use the 4-Way Navigation key to navigate the menu system, change feature settings and play games.

Tip: Down and up are your primary movements within menus and navigation through contacts. Move left and right to change feature settings and edit text.

From the Home screen, press (⦿) to do the following:

- Select a program at the top of the screen, and then press **Action** (○) to open the program.
- Select an item in the center of the Home screen, such as your next appointment, your profile type, or your messaging information, and then press **Action** (○) to open the program or access the settings associated with the item selected.

Using the Action Button

The Action button confirms your selection. Pressing **Action** (○) is similar to pressing “Enter” on a keyboard. In some cases, confirming your selection accesses a program or setting. You can also press **Action** (○) to check or uncheck a feature.

Using the Soft Keys

The 2 Soft keys on your phone are located directly below the display screen. Each soft key performs the command displayed immediately above it on the screen. Both soft keys are context sensitive — their function changes according to the phone's status, for example, when in a particular application or making a phone call.

On the Home screen:

Press	To
1 Left soft key  (Start)	access programs in the Start list Tip: The phone comes pre-installed with programs that you can start using immediately. To install additional programs on your phone, refer to the Motorola MPx220 companion CD that came with the phone.





Press	To
2 Right soft key 	access the following during normal use:
	• Contacts: displays to open your contacts list. • Voicemail: displays to play a received voicemail. • Messages: displays to read new messages in Messaging.

You can also use numbers to navigate quickly to programs and settings on the phone. Press the number on the keypad that corresponds to the number of the program or setting you want. For example, in the Start list, press  to open **Calendar**.

You can also use numbers to select menu options by pressing the number that corresponds to the menu option in descending order. For example, to select **Filter** in the list of **Contacts** menu options, press .

Using the Back Button

Press the Back button to navigate to the previous screen, or move the cursor back to delete 1 or more characters in a text field.

Press	To
1 Back 	backspace and remove 1 character in a text field
2 Back  for a while	backspace and remove multiple characters in a text field



Using Menus

On many screens, the Menu soft key is the Right soft key. Press **Menu**  to display a list of options that are relevant to the screen you are viewing. Selecting a menu option will either perform the command or take you to another part of

the user interface where you can perform the command.



Press **Menu**  to display menu options

Tip: Press  up to move to the bottom of the menu.

Entering Text and Numbers

You can enter text and numbers on the phone using the keypad. The phone supports 3 input modes for entering text and numbers: **Multi-Tap**, **ITAP**, and **Numeric**. The **Multi-Tap** and **ITAP** modes are used for entering text, and the **Numeric** mode is used for entering numbers. When you select a field that requires text or numeric entry, the phone automatically defaults to the appropriate input mode. The status indicator on the top of the display shows the input mode you are currently using.

Changing Input Modes

Action

Press and hold  until the status indicator for the input mode you want is shown at the top of the display.

The following table shows the complete list of input mode status indicators.

Indicator	Mode
abc	Multi-Tap text input mode, lower case
Abc	Multi-Tap text input mode, temporarily upper case
ABC	Multi-Tap text input mode, caps lock
<u>abc</u>	ITAP text input mode, lower case
<u>Abc</u>	ITAP text input mode, temporarily upper case
<u>ABC</u>	ITAP text input mode, caps lock
123	Numeric input mode

Entering Text in Multi-Tap Mode

You can enter a letter in **Multi-Tap** mode by pressing the number key on which the letter appears. To enter the 1st letter on the number key, press the key once. To enter the 2nd letter, press the key twice, and so on. The letter entered remains underlined until you complete the



keypresses and the cursor moves to the next position. For example:

Press	To
1    	enter the letter s
2    	enter the word hat

When you enter letters that are on the same number key, wait until the underline disappears before entering the next letter so that your phone can process the 1st letter. This pause is called the **Multi-Tap** time out, and you can adjust the length of the pause between keypresses.

To change the **Multi-Tap** time out:

Find the Feature Start  > **Settings** > **Accessibility**

Press	To
1  left/right	select the time interval you want for the pause between keypresses under Multipress time out
2 Done 	save the setting

Entering Punctuation in Multi-Tap Mode

Press	To
 repetitively	scroll through common punctuation: .,?!- @:1

Entering Numbers in Numeric Mode

When you are in **Numeric** mode, press the number(s) you want to enter on the keypad. If a field permits a numerical entry only, such as the **Work** phone field in **Contacts**, the input mode will automatically default to **Numeric** mode. To enter an asterisk (*) or a hash sign (#), press the corresponding key on the keypad.

Inserting Symbol

Press	To
1  for a while	open the Pick a symbol list
2 	scroll to a symbol
3 Done 	select and enter the symbol

Tip: You can also press  to select and enter a symbol.

Using Special Key Functions

The following is a list of the keys and their corresponding functions in input mode.



To enter a space in **Multi-Tap** mode:

Press	To
	enter a space

To start a new line:

Press	To
Action (○)	start a new line

To change among uppercase, lowercase, and caps lock:

Press	To
	change among uppercase, lowercase, and caps lock

Tip: In text mode, the 1st letter of a sentence is automatically capitalized.

Viewing Phone Information

Use **About** settings to display information about your phone's operating system, including version numbers, copyright information and available storage.

Find the Feature

Start  > **Settings** > **About**

Setting Up Your Phone

Setting the Time and Date

Use **Date and Time** settings to change the local time zone and the current date and time, and to set the alarm.

Find the Feature

Start  > Settings > More

Press	To
1 	scroll to Date and Time
2 Action (○)	set Date and Time settings

Entering Owner Information

Use **Owner Information** settings to enter and display personal information, such as your name, phone number, and email address. In the event that you lose your phone and it is found, you can be contacted.

Find the Feature

Start  > Settings > More

Press	To
1 	scroll to Owner Information
2 Action (○)	set Owner Information settings



Configuring Power Management

Use **Power Management** settings to change the backlight and display time-outs, and to check the battery level.

Find the Feature

Start  > **Settings** > **More**

	Press	To
1		scroll to Power Management
2	Action (○)	set Power Management settings



Calling Features

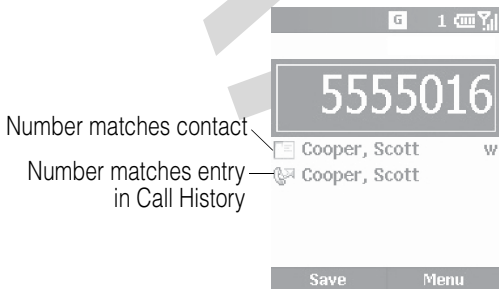
Redialing a Number

To redial the last number called from the Home screen:

Press	To
Send  twice	place a call to the last dialed number

Calling a Contacts Entry

As you enter a contact name, the phone searches **Contacts**, **Call History**, **Speed Dial** lists, and the SIM card to find a matching name and number.



Making a Call from the Home Screen

Press	To
1 keypad keys	enter the contact name (For example, to call Scott, press      .)
2 	select the name from your contacts list
3 Send 	make the call

Making a Call from Contacts

You can select a person's name from your contacts list and press **Send**  to place the call. If a contact has more than 1 phone number, such as **Work**, **Home**, and **Fax**, the **Work** phone number is set as the default.

Find the Feature Start  > **Contacts**

Press	To
1 	scroll to the contact name to call
2 Send 	make the call

Tip: If you have a long list of contacts, enter the 1st few letters of a contact's name. Your phone searches the entire contacts list to display the name.



Changing the Default Number for a Contact

Find the Feature

Start  > **Contacts**

Press	To
1 	scroll to a desired contact
2  left/right	change the default number (For example, if you change w to m , the default number changes from Work phone to Mobile phone.)

Making a Call to a Desired Phone Number

Find the Feature

Start  > **Contacts**

Press	To
1 	scroll to the contact to call
2 Action ()	open the contact
3 	scroll to the number you want to call
4 Send 	place the call



Making a Call with Voice Dialing

You can dial a phone number by speaking a word.

Note: The voice recognition application works only via the phone directly or a wired headset attached to the phone, but not with a Bluetooth headset.

Dialing a Phone Number by Saying the Name Exactly Saved in Contacts

On the Home screen:

Action

- 1 Press and hold  up to open **Speech Recognition**.
- 2 Wait for the audio and visual cue and begin saying **Voice Dial**.
- 3 Wait for the audio and visual cue and begin saying the name exactly stored in your contacts list.
- 4 If there is only 1 number for this contact, the phone dials the number automatically. If there are multiple numbers, the phone displays the different locations and asks you which 1 to call. Say the name of the location you want to call, for example, **Work**. The phone repeats the location and then dials the number.



Changing How Voice Dial Works with Names

If you want to review and confirm names before dialing the associated numbers, you must enable **Choice Lists**. After you say a name, your phone prompts you **Did you say** followed by the name that most nearly matches the name you spoke. You can confirm the name by saying **Yes** or pressing **Yes** , or by selecting the correct name from a list of up to 3 names displayed on the screen. **Choice Lists** is disabled by default. To enable it, follow the steps from the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

Press	To
1 Settings 	open the settings menu
2 	scroll to Choice Lists
3 Action (○)	select Choice Lists
4 Action (○)	select Name dialing
5 	scroll to Always On
6 OK 	save the setting



Adjusting the Name Sensitivity Setting

If the phone seldom recognizes your name commands, follow the steps from the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

Press	To
1 Settings 	open the settings menu
2 	scroll to Sensitivity
3 Action (○) 	select Sensitivity
4 	scroll to Names
5 Action (○) 	select Names
6  down	adjust the Names setting toward Reject Less
7 OK 	save the setting

Changing How Speech Recognition Updates Contacts

When you start **Speech Recognition**, it checks to see if you have added or changed names in your contacts list. If the contacts list has changed, **Speech Recognition** automatically reloads the entire list of names. You can also turn off

automatic update and then update the list manually at your convenience. To turn off automatic update:

Action

Press and hold  up to open **Speech Recognition**.

Press	To
1 Settings 	open the settings menu
2 	scroll to Contacts Update
3 Action (○)	select Contacts Update
4 Action (○)	select Configure
5 	scroll to Manual
6 OK 	save the setting

Dialing a Phone Number by Speaking the Number Continuously

You can dial valid 7-digit or 10-digit phone numbers simply by speaking the number continuously, without pausing between the digits.

Note: The phone recognizes the digits “one,” “two,” “three,” “four,” “five,” “six,” “seven,” “eight,” “nine,” “zero,” and “oh.” The phone cannot recognize numbers such as “1 eight hundred” for “1 800.” Say “one eight zero zero” instead.



On the Home screen:

Action

- 1 Press and hold  up to open **Speech Recognition**.
- 2 Wait for the audio and visual cue and begin saying **Voice Dial**.
- 3 Say a valid 7-digit or 10-digit number distinctively, without pausing between digits. Optionally, you can say the 1st digit of the number and the phone displays a list of up to 3 numbers and prompts you **Did you say** followed by the 1st number in the list.
- 4 If the number is correct, say **Yes** to initiate dialing. If the number is not correct, say **No** to hear the next match or select the correct number from the list.

Changing How Voice Dial Works with Phone Numbers

By default, **Choice Lists** for **Digit Dialing** is enabled, which allows you to review and confirm numbers before dialing them. If you disable **Choice Lists**, the phone automatically dials the recognized number, without



requiring you to confirm it. To disable **Choice Lists** from the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

Press	To
1 Settings 	open the settings menu
2 	scroll to Choice Lists
3 Action (○)	select Choice Lists
4 	scroll to Digit Dialing
5 Action (○)	select Digit Dialing
6 	scroll to Always On
7 OK 	save the setting

Customizing Digit Dialing to Your Voice

You can adapt **Digit Dialing** to your personal accent, if necessary. Adaptation involves recording 12 sequences of 4 digits each to teach the system your voice.



On the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

	Press	To
1	Settings 	open the settings menu
2	Action (○)	select Digit Dialing
3		scroll to Adapt Digits
4	Action (○)	select Adapt Digits
5	OK 	to start recording

Tip: Wait for the beep and then repeat the digits of the 1st sequence displayed on the screen. Then follow the instructions on the screen to complete the adaptation.

Making a Call from the Call History List

The **Call History** list displays the last 25 calls you made, received, or missed. Choose a name or number to call from the list.

Find the Feature

Start  > **Call History**



Press	To
1 	scroll to the number or entry to call
2 Send 	place the call

Calling a Number in a Message

When you see an underlined phone number as a hyperlink in a message, you can place a call to the phone number.

After opening a message:

Press	To
1 	scroll to the phone number as a hyperlink
2 Action (○)	place the call

Calling an Emergency Number

Calls to emergency service numbers can be made under any circumstances, even if you have locked the SIM card and/or the phone.

Note: Be aware that when the **Flight mode** feature is turned on, the phone cannot receive and make a call, including an emergency call. In order to receive and make a call, you must turn off the **Flight mode** feature and re-engage the phone's RF capability. Always obey the instructions of your airline crew.



On the Home screen:

Press	To
1 keypad keys	dial your local emergency number
2 Send 	place the call

Managing Call History

Call History displays the last 25 calls you have made, received, and missed. Each entry in **Call History** contains the start time of the call, the duration, the caller's name, if available, and the caller's number. The oldest calls are automatically deleted from the list to make room for new calls.

Find the Feature **Start**  > **Call History**

Tip: You can filter **Missed Calls**, **Incoming Calls**, and **Outgoing Calls** by pressing **Menu**  , selecting **Filter**, and selecting the filter you want.

Sending an Email from Call History

Press	To
1 	scroll to a desired entry
2 Menu 	open the options menu
3 	scroll to E-mail



Press	To
4 Action (○)	edit and send an email to the entry's recipient

Creating a New Contact from a Number in Call History

Press	To
1 	scroll to a desired entry
2 Menu 	open the options menu
3 	scroll to Save to Contacts
4 Action (○)	select Save to Contacts
	Note: Make sure <New Item> is highlighted.
5 Action (○)	enter the contact information

Calling with Speed Dial

You can quickly dial phone numbers by assigning speed dial numbers. Press and hold 1 or 2 keys from the Home screen to make a speed dial call. Choose speed dial entries from 2-99. The speed dial entry 1 is often reserved to set up or dial your voicemail after initial setup.

Note: The **Speed Dial** setting is available only for a phone number stored in the phone memory.



To create a speed dial shortcut 1st:

Find the Feature

Start  > **Contacts**

Press	To
1 	scroll to a desired contact
2 Action (○)	open the contact
3 	scroll to a desired phone number
4 Menu (☐)	open the options menu
5 Action (○)	select Add Speed Dial
6 keypad keys	enter the speed dial number under Keypad assignment
7 Done (☐)	save the setting

Tip: You can also assign speed dial numbers to Web addresses and email addresses that are stored in **Contacts** of your phone.

To make a speed dial call from the Home screen:

Action

Press and hold the keypad number that you have assigned as a speed dial number. If the keypad assignment has 2 digits, press the 1st digit, then press and hold the 2nd digit.



Using Voicemail

On the Home screen:

Action

Press and hold  to automatically call voicemail after initial setup.

Using Call Waiting



To answer the incoming call when you are talking on the phone:

Press

Accept 

or

Send 

To

place the 1st call on hold, and answer the 2nd call

To end the 1st call before answering the incoming call:

Press

1 **End** 

2 **Accept** 

or

Send 

To

end the 1st call

answer the 2nd call



Tip: If the 2nd call is answered but the caller hangs up, press **Menu**  and select **Unhold** to rejoin the original call. Press **Send**  to change between an active call and a call that is on hold.

To reject the incoming call when you are talking on the phone:

Press	To
Reject 	reject the 2nd call

This will keep your current call in progress, but will reject the **Call Waiting** call.

Putting a Call on Hold

While a call is in progress, you can hold the call and then reconnect it.

	Press	To
1	Menu 	open the options menu
2		scroll to Hold
3	Action 	place the active call on hold
		Tip: Select Unhold to activate the call on hold.



Muting a Call

You can mute the microphone for the active call. The other party will not hear anything you say, but you can still hear the other party.

Press	To
1 Menu 	open the options menu
2 	scroll to Mute
3 Action (○)	mute the active call

Tip: Select **Unmute** to turn the microphone back on for the active call.

Turning the Speaker On/Off

You can turn the speaker on or off during a call.

Press	To
1 Menu 	open the options menu
2 	scroll to Speakerphone/ Speakerphone Off
3 Action (○)	turn the speaker on/off

Tip: During an incoming or outgoing call, you can toggle between the earpiece and speakerphone by holding down **Send**  .



Messages and Chat

Composing an MMS Message



MMS messages are created by combining various slides. Each slide can consist of a photo or video, audio (only when photos are used), and text.

Find the Feature

Start > **Messaging** > **Media Messages** > **New**

Adding a Photo/Video

You can add a still image or video clip to each slide in your MMS message.

Press	To
1	highlight the Picture/Video area
2 Action	open My Pictures
3	scroll to a desired photo or video clip
4 Select	add the photo or video clip



Adding Text

You can add new text or preset words/phrases to each slide in your MMS message.

Using Preset Words or Phrases

Press	To
1 	highlight the Text area
2 Action (○)	open the text field
3 Menu (▢)	open the options menu
4 Action (○)	select Insert Canned Text
5 	scroll to a desired phrase
6 Select (▢)	select the phrase
7 Done (▢)	add the phrase

Editing Preset Words or Phrases

Press	To
1 	highlight the Text area
2 Action (○)	open the text field
3 Menu (▢)	open the options menu
4 Action (○)	select Insert Canned Text
5 	scroll to a desired phrase



Press	To
6 Menu 	open the options menu
7 	scroll to Edit
8 Action 	select Edit
9 keypad keys	edit the phrase
10 Save 	save the phrase

Adding Audio

You can add preset or recorded audio clips to each slide, except when videos are used.

Using a Preset Audio Clip

Press	To
1 	highlight the Audio area
2 Action 	open My Sounds
3 	scroll to a desired audio clip
4 Select 	add the audio clip

Using a Recorded Audio Clip

Press	To
1 	highlight the Audio area
2 Action 	open My Sounds



Press	To
3 Menu 	open the options menu
4 	scroll to Capture Audio
5 Action (○)	select Capture Audio
6 Record 	record your audio clip
	Tip: Press Stop  to stop recording, if necessary.
7 Play 	play your audio clip
8 Stop 	stop playing your audio clip or confirm your audio clip
9 Done 	add the audio clip

Managing Slides

You can add, remove, or jump to additional slides in your MMS message.

Press	To
1 Menu 	open the options menu
2 	scroll to Slides
3 Action (○)	select Slides



Previewing Your MMS Message

You can preview your message before sending it.

	Press	To
1	Menu 	open the options menu
2		scroll to Preview Message
3	Action 	preview your MMS message



Sending Your MMS Message

	Press	To
1	keypad keys	enter in your recipient's phone number/email address in the To field
	or	
	Menu  > Recipients > Add	or select a recipient from your contacts list.
		Tip: You can add other phone numbers/email addresses/recipients separated by semicolons.
2	 down	highlight the Subject field
3	keypad keys	enter in a subject of your message



Press	To
4 Send 	send your MMS message

Configuring the Sending Performance

You can customize how your MMS message is going to be sent using the menu options.

Press	To
1 Menu 	open the options menu
2 	scroll to Send Options
3 Action (○)	configure the sending performance

Viewing Your MMS Message



You can view MMS messages in different message boxes.

Find the Feature

Start  > **Messaging** > **Media Messages** > **Menu**  > **Folders**

Press	To
1 	scroll to a desired message box
2 Action (○)	select the message box
3 	scroll to a desired message



Press	To
4 Action (○)	select the message
5 Action (○)	view the message
Tip: Press  to navigate to other slides if more than one are present.	

Viewing Objects in an MMS Message

You can view objects included in an MMS message.

Press	To
1 	scroll to a desired message box
2 Action (○)	select the message box
3 	scroll to a desired message
4 Action (○)	select the message
5 	scroll to a desired object
6 Action (○)	view the object

Configuring the MMS Setting



You can save the messages you sent, download new messages automatically, sort messages by different ways, define the maximum size limit for messages that you send and receive, set the number of times you attempt to send your

messages before stopping, and select your type of Internet connection.

Find the Feature **Start**  **> More > MMSSettings**

Tip: You might view and edit your MMSC URL and WAP gateway using the menu options. You will likely never need to change these settings.

Configuring an Email Account



Before sending and receiving email messages, you may have to complete the email account setup. You can send email messages by synchronizing, or by connecting directly to an email server through your Internet Service Provider (ISP) or a corporate network. Your service provider may have configured email settings for your phone before you received it; otherwise, you must configure your phone to send/receive emails.

Find the Feature **Start**  **> Messaging >**
Outlook E-Mail > Menu  **> Options**
> Account Setup > Menu  **> New**

Fill in the blanks with the appropriate information.

Tip: Press **Next**  to continue and press **Finish**  to complete the email setup.

Option	Description
Your name	enter in your name
E-mail address	enter in your email address





Option	Description
Automatic setup	If you check this feature, your phone will obtain email settings from the Internet. If you uncheck this feature, continue the following options.
User name	enter in your user name
Password	enter in your password
Domain (if necessary)	enter in your domain name, if necessary
Save password	Check this feature and you need not to enter your password repeatedly before you can send/receive emails.
Server type	select either POP3 or IMAP4
Account name	enter in your account name
Network	select The Internet
Incoming mail server	enter in your incoming mail server
Require SSL connection	check this feature, if necessary
Outgoing mail server	enter in your outgoing mail server
Outgoing server requires authentication	check this feature, if necessary

Option	Description
Download the following messages	press  left/right to select features
Connect automatically and check for messages	press  left/right to select a feature

Note: You can only have one configurable **Outlook E-Mail** at one time and therefore only synchronize one type of email, either POP3 or desktop. If you choose to synchronize your desktop email, it will wipe out your POP3 settings.

Receiving Email from the Internet



You can receive email messages through **Inbox** synchronization or by connecting to your email server. You can then view all of your email messages in **Messaging > Outlook E-Mail**. When you connect to the email server or synchronize **Inbox** with your desktop computer, only the first 5 KB of each new message are downloaded by default to your phone. If you are using an IMAP4 or POP3 server, only the first 1 KB of each new message is downloaded by default. Small attachments are downloaded and the original messages remain on the email server or your desktop computer.



Tip: For more information about synchronizing **Inbox**, see “Synchronizing Information among Devices” on page 110.

Find the Feature

Start  > **Messaging** >

Outlook E-Mail > **Menu**  > **Send/Receive**

Receiving Complete Email Messages

You can specify to receive email messages in full, instead of receiving only the first 5 KB set by default. The complete message will be retrieved the next time you synchronize or connect to your email server.

Find the Feature

Start  > **Messaging** >
Outlook E-Mail

Press	To
1 	scroll to a desired email message
2 Menu 	open the options menu
3 	scroll to Mark for Download
4 Action 	receive the email message in full

Tip: When you delete an email message on your phone, it will also be deleted from the email server the next time you connect.



Receiving Email Attachments

You can download email attachments to your phone. Attachments display as a list of hyperlinks at the bottom of the email message, and are preceded by an attachment icon. The text of the hyperlink contains the file name followed by the size of the attachment, so that you can determine whether to download the attachment. The attachment icon has 3 states: **Not downloaded**, **Downloaded**, and **Marked for Download**.

Tip: On POP3 messages, the attachment size is omitted.

Find the Feature

Start  > Messaging >
Outlook E-Mail

Press	To
1 	scroll to a message that contains an attachment(s)
2 Action (○)	select the message
3 	scroll to a desired attachment
4 Action (○)	receive the attachment

Viewing a Downloaded Attachment

Find the Feature

Start  > Messaging >
Outlook E-Mail



Press	To
1 	scroll to a message that contains a downloaded attachment(s)
2 Action (○)	select the message
3 	scroll to a desired attachment you downloaded
4 Action (○)	view the attachment

Note: You can view attachments only for file types that are supported by your phone, such as .txt, .JPEG, .asf, .asx, .wax, .wm, .wma, .wmv, .wmx, .wvx, .mp3. A third party application must be downloaded to your phone to view attachment in other formats.

Composing and Sending an Email/SMS Message

There are several ways to edit and send email and SMS messages with your phone. The most common way is from **Messaging** or from **Contacts**.

Composing and Sending an Email/SMS Message from Messaging

Find the Feature

Start  > **Messaging** >
Text Messages/Outlook E-Mail >
New 



Press	To
1 keypad keys	enter in your recipient's (SMS) phone number/email address in the To field
or	or
Menu  > Insert Contact	select a recipient from your contacts list.
	Tip: To add multiple recipients either in To and/or Cc field (Outlook E-Mail only), separate each with a semicolon by repeatedly pressing  in Multi-Tap mode. Enter in your subject in the Subj field for your email message.
2  down	highlight the body text field
3 keypad keys	enter in your message
4 Send 	send your message

Tip: To insert the @ sign in an email address in **Multi-Tap** mode, press  once. Then, when you need to insert the period in the email address, press  again.



Composing and Sending an Email/SMS Message from Contacts

You can quickly edit and send a message to a contact if you have an email address or SMS number (phone number) included in **Contacts**.

Find the Feature

Start  > **Contacts**

	Press	To
1		scroll to a desired contact
2	Action (○)	select the contact
3		scroll to a desired email address or (SMS) phone number
4	Action (○)	select the email address or (SMS) phone number Tip: Skip steps 5-8 if you select a (SMS) phone number for your SMS message.
5		scroll to Text Messages or Outlook E-Mail for your email message
6	Action (○)	select Text Messages or Outlook E-Mail
7	keypad keys	enter in your subject in the Subj field
8	 down	highlight the body text field



Press	To
9 keypad keys	enter in your message
10 Send 	send your message

Requesting a Delivery Receipt for Your Message Before You Send It

In the body text field:

Press	To
1 Menu 	open the options menu
2 	scroll to Message Options
3 Action (○)	select Message Options
4 Action (○)	check Request message delivery notification
5 Done 	save the setting

Inserting Predefined Text into Your Message

Save time when composing messages by inserting predefined text into your messages. You can edit the predefined text to create words or phrases that you frequently use in messages. In the body or subject text field:

Press	To
1 Menu 	open the options menu
2 	scroll to Insert Text



Press	To
3 Action (○)	select Insert Text
4 	scroll to a desired preset text
5 Insert (□)	insert the preset text

Editing Predefined Text

Find the Feature **Start** (□) > **Messaging** >
Text Messages/Outlook E-Mail/Media
Messages > **Menu** (□) > **Options**
 > **Edit My Text**

Press	To
1 	scroll to a desired preset text to modify
2 keypad keys	edit the text
3 Done (□)	save the text

Inserting a Voice Recording into Your Email

Insert a voice recording into an email message when you want to verbally explain information that is contained in the email message. In the body text field:

Press	To
1 Menu (□)	open the options menu
2 	scroll to Insert Recording



Press	To
3 Record 	start recording
	Tip: Press Stop  to stop recording.
4 Done 	insert the recording

Note: You can create only one voice recording at a time. A new voice recording replaces the prior recording.

Importing SMS Messages from Your SIM Card to Messaging

Find the Feature

Start  > **Messaging** > **Text Messages** > **Menu**  > **Options** > **Import SIM Messages**

Note: You cannot export messages from your phone to a SIM card. SMS messages are not removed from the SIM card after they are imported to **Messaging** of your phone.

Opening Email/SMS Messages

Email and SMS messages that are sent to you are stored in **Messaging**. By default, the most recently received messages display at the top of the **Inbox** list. Use the menu options to quickly compose, delete, forward, and reply to messages. You can also customize **Messaging** settings to control the way you send, receive, and view messages.



Indicates opened email

Indicates new email



Find the Feature

Start > Messaging > Text Messages/Outlook E-Mail

Press	To
1	scroll to a desired message
2 Action ()	view the message

Tip: If you want to create a contact card for the sender, press **Menu** and select **Save to Contacts**.

Using Messaging Menu Options

Find the Feature

Start > Messaging > Text Messages/Outlook E-Mail > Menu

The following table lists **Messaging** menu options and their functions.

Option	Description
Delete	delete the selected message



Option	Description
Reply	reply to an open or selected message
Reply All	reply to the sender and all recipients included in an open or selected message
Forward	forward the selected message
Folders	display all Messaging folders
Switch Accounts	change among Messaging accounts
Move	move the selected message to a desired folder
Mark as Read	change the selected unread message to a read message
Mark as Unread	change the selected read message to an unread message
Mark for Download	retrieve the entire email message from the email server the next time you connect
Options	display a list of Messaging options that you can customize (see below)
Send/Receive	connect to your email server to send and receive messages



Customizing Messaging Options

You can optimize your phone's **Messaging** by changing the way your messages display and send, specifying how to sort your messages, creating your text phrase and signature, and more.

Find the Feature

Start  > **Messaging** > **Text Messages/Outlook E-Mail** > **Menu**  > **Options**

The following table lists the **Messaging** options and their functions.

Option	Description
Display	change the message information displayed on the screen
Sending	specify whether you want to include an original copy of the message in your reply, save a copy of your sent messages, or use Unicode for SMS messages
Edit My Text	edit the predefined text that you can insert in messages
Signatures	edit your own signature that you can insert in messages



Option	Description
Account Setup	configure your phone to send and receive email messages (Your service provider or network administrator can provide you with the necessary information to connect to your email server.)
Import SIM Messages	import SMS messages from your SIM card to Messaging > Text Messages (The messages are not removed from the SIM card after they are imported.)

Receiving Meeting Requests

When you accept a meeting request that arrives in **Messaging**, the meeting immediately appears in **Calendar** on your phone, and a message will be sent back to the meeting organizer the next time you synchronize **Calendar**.

Tip: For more information about synchronizing **Calendar**, see “Synchronizing Information among Devices” on page 110.

Find the Feature

Start  > **Messaging > Text Messages/Outlook E-Mail**

Press	To
1 	scroll to a desired meeting request
2 Action (○)	select the meeting request
3 Accept 	accept the meeting request



Viewing Your Message Folders

Your phone stores messages in the following folders:

Folder	Description
Deleted Items	Deleted messages are stored until you empty this folder.
Drafts	Messages that you save before sending are stored.
Inbox	All received messages arrive by default.
Outbox	Sent email messages are stored until you synchronize or connect to your email server. SMS messages are sent immediately over the network and will appear in your Outbox folder for only a few seconds.
Sent Items	Copies of email messages that you send are stored.

To view your message folder:

Find the Feature

Start  > **Messaging** > **Text Messages/Outlook E-Mail** > **Menu**  > **Folders**

Press	To
1 	scroll to a desired folder
2 Action 	view the folder



Tip: If your email account supports folders, you can view multiple folders that reflect the folder structure you have created on your email server. Messages you download from the server will automatically be placed in the appropriate folders on your phone.

Using Message Notifications

Your phone makes a sound to alert you when new messages arrive. The number of unopened messages displays on the Home screen, depending on your Home screen settings, and an envelope icon  is shown on the top of the display. You are notified in different ways for the types of messages you receive.

Note: SMS messages that are sent to you instantly appear in **Messaging > Text Messages**, and are not synchronized. You cannot use them to send or receive attachments.

Message	Description
Email/SMS Message	When you connect to your email server or service provider, you are notified of new email or SMS messages by the closed envelope icon  shown at the top of the display, accompanied by an email or SMS sound alert. You can view new email or SMS messages in Messaging > Outlook E-Mail or Text Messages .



Message	Description
Voicemail Message	You are notified of new voicemail messages by the new voicemail icon  shown at the top of the display. To listen to your new voicemail messages, press Voicemail  , or press and hold  from the Home screen to dial your voicemail service number.

Modifying a Sound Alert for Notifications

Find the Feature

Start  > **Settings** > **Sounds**

Press	To
1 	scroll to a desired option to modify
2  left/right	select a new sound
3 Done 	save the setting

Communicating with MSN® Messenger



You can use **MSN Messenger** on your phone to send instant messages. **MSN Messenger** on your phone provides the same chat environment as

MSN Messenger on your desktop computer. With the features of this environment you can:

- Send and receive instant messages.
- View the status of others in your messenger contacts list, or change your own status (**Available**, **Busy**, **Out To Lunch**).
- Invite others to a chat conversation.
- Block contacts from seeing your status or sending you messages.

Getting Started with MSN Messenger

To use **MSN Messenger**, you need a Microsoft.NET[®] Passport account unless you already have a hotmail account. To set up a Microsoft.NET Passport account, go to: <http://www.passport.net>. Once you have this account, you will need:

- To connect to the Internet with a modem or wireless connection on your phone.
- To sign in to **MSN Messenger** using your Microsoft.NET Passport.

Signing In and Out of MSN[®] Messenger

Find the Feature

Start  > **MSN Messenger**

Press	To
1 Sign In 	prepare to sign in MSN Messenger





Press	To
2 keypad keys	enter your sign-in name (for example, name_123@ hotmail.com) and password
3 Sign In 	sign in MSN Messenger
4 Menu 	open the options menu
5 	scroll to Sign out
6 Action 	sign out of MSN Messenger

Note: If you do not sign out of **MSN Messenger**, you remain on a data connection, which may result in additional charges from your service provider.

Sending an Instant Message

After signing into **MSN Messenger**:

Press	To
1 	scroll to the person to whom you want to send an instant message
2 Send 	select the person
3 keypad keys	enter your message
4 Send 	send your message

The menu options when you edit an instant message are described in the following table.

Option	Description
My Text	add common text messages
Invite	invite a contact to an ongoing chat
Chats	see who is already chatting, or change between chats

In the messenger contacts list, there are several menu options for you to use.

Option	Description
Add Contact	create a contact
Delete Contact	delete the selected contact
Block/Unblock	block/unblock the selected contact from seeing your status and sending you messages



Changing Your Status



Highlight your status and press **Action** (○)

In the messenger contacts list:

Press	To
1 	scroll to your name
2 Action (○)	select your name
3 	scroll to a desired status description
4 Action (○)	select the status description

Changing Your Displayed Name

After signing into **MSN Messenger**:

Press	To
1 Options 	open the options menu
2 Action (○)	select Passport Account



Press	To
3 keypad keys	enter the name you want others to see when you send instant messages

Note: You must sign into **MSN Messenger** to change your display name. When using **MSN Messenger**, the session will not time out or end unless one of the following occurs:

- User ends instant messenger session.
- User “Accepts” an incoming voice call.
- An outgoing voice call is placed.
- The device is turned off or moves out of range.



Personalizing Your Phone

You can view and change settings to personalize your phone for the way you work. For example, you can change the sounds or use your own sounds for ring tones, notifications and reminders. You can also set up **Call Forwarding** and **Call Waiting**, as well as download your own images to customize the Home screen background.

Using Phone Settings



Use **Phone** settings to set options for **Call Forwarding**, **Call Waiting**, and **Caller ID**.



Find the Feature

Start  **> Settings > Phone**

The following table lists the **Phone** settings and their functions.

Option	Description
Call Barring	block incoming and/or outgoing calls
Call Forwarding	forward all or selected calls to another number
Call Options	change phone numbers, such as your voicemail and SMS service center, answer incoming calls by pressing any key, use advanced call options
Call Waiting	turn Call Waiting on or off
Caller ID	let your identification be known to all callers, only your contacts, or no callers
Channels	configure cell broadcast
Fixed Dialing	limit your calling area to one or more specific phone numbers and/or area codes
Networks	identify your current network and change your network selection from Automatic to Manual



Using Sound Settings

Sounds settings are used to customize the sounds for ring tones, notifications, and reminders.

Find the Feature **Start**  > **Settings** > **Sounds**

Using Your Own Sound

Action

- 1 Locate the sound file on your desktop computer and copy the file. The file format must be .wav or .mid (MIDI type 0).
- 2 Connect the phone to your desktop computer via the USB data cable or infrared.
- 3 Open **ActiveSync**® on your desktop computer, click **Explore**, double-click **My Smartphone**, double-click **IPSM**, double-click **Application Data**, double-click **Sounds**, and then paste the sound file into the **Sounds** folder.

Note: If a **Sounds** folder does not exist in this directory, create a new one.

- 4 On your phone's Home screen, press **Start**  , select **Settings**, and then select **Sounds**.
- 5 Select the option to customize, press  left/right to select the sound.
- 6 Press **Done**  to save the setting.

Using Profiles

Use **Profiles** settings to configure how your phone notifies you about an incoming call, an approaching appointment, or an arriving message. You can use **Profiles** to change notifications quickly based on your situation. For example, you may want the phone to ring louder if a client is calling, or you may not want the phone to ring at all, but want to hear calendar reminders. The default profile used with your phone is the **Normal** profile. The name of the current profile displays on the Home screen.



Indicates your current profile

Find the Feature

Start  > Settings > Profiles

Tip: You also can either assign **Profiles** settings by selecting **Profile: [Type]** from the Home screen, or select a different profile using the **Quick List** by pressing **Power** (⏻) or holding down **Home** (🏠) from the Home screen.

Note: When a headset is plugged into the phone, the **Headset** profile is used automatically.

Modifying a Profile

Find the Feature

Start  > Settings > Profiles

Press	To
1 	scroll to a desired profile
2 Menu 	open the options menu
3 Action (○)	select Edit
4 	scroll to a desired option to modify
5 Done 	save the settings

Observe the following from your phone when in the following modes:

Profile	Description
Headset	This can only be activated when a headset is connected to your device. The Headset profile is deactivated when you remove the headset from your device. You cannot select or unselect Headset from the Profile item on the Home screen. It has been placed in the Profiles menu in order to allow you to confirm (via a check mark) that it has been automatically selected upon connecting to the headset.

Profile	Description
Car	This can only be activated when a car kit specifically designed for your phone is connected to your device. The Car profile is deactivated when you remove the car kit from your device. You cannot select or unselect Car from the Profile item on the Home screen. It has been placed in the Profiles menu in order to allow you to confirm (via a check mark) that it has been automatically selected upon connecting to a car kit.
Speakerphone	This is automatically selected by the device while you are in a call and after you have activated the speakerphone. The Speakerphone profile is deactivated when you turn off speakerphone during or just as you are ending a call. You cannot select or unselect Speakerphone from the Profile item on the Home screen. It has been placed in the Profiles menu in order to allow you to confirm (via a check mark) that it has been automatically selected upon turning on the speakerphone.



Changing the Home Screen

Use **Home Screen** settings to change the Home screen layout, the color scheme, the background image, and the time delay in the idle display.

Find the Feature

Start  > **Settings** > **Home Screen**

Customizing the Home Screen with Your Own Image

Action

- 1 Locate your image file on your desktop computer and copy the image file. The file format must be .gif, .jpg, or .bmp.

Tip: For best results, use images with a 176 x 200 screen resolution to fit on your phone's Home screen.

- 2 Connect the phone to your desktop computer via the USB data cable or infrared.

- 3 Open **ActiveSync**® on your desktop computer, click **Explore**, double-click **My Smartphone**, double-click **IPSM**, double-click **Application Data**, double-click **Home**, and then paste the image file into the **Home** folder.

Note: If a **Home** folder does not exist in this directory, create a new one.

- 4 On your phone's Home screen, press **Start**  , select **Settings**, and then select **Home Screen**.

Action

- 5 Under **Background image**, press  left/right to select your image.
- 6 Press **Done**  to save the setting.

Changing Regional Settings

Use **Regional Settings** to change the language, date, and time style of the phone, as well as number and currency formatting options.

Find the Feature Start  > Settings > More > Regional Settings

Setting Font Size, Time-Out, and Alert Volume

Use **Accessibility** to configure the system font size, Multi-Tap/confirmation time-out, and in-call alert volume.

Find the Feature Start  > Settings > Accessibility

Using Advanced Phone Settings

Use **Phone Settings** to customize flip answer on/off control, display style, and screen contrast.

Find the Feature Start  > Settings > More > More > Phone Settings



Getting More Out of Your Phone

Making a Conference Call



You can join together all existing calls to make a conference call, if you have subscribed to this service.

On the Home screen:

Press	To
1 keypad keys	enter a phone number for the 1st call
2 	call the number
3 keypad keys	enter a phone number for the 2nd call
4 	call the 2nd number
	Note: The 1st call is automatically put on hold when the 2nd call is active.
5 Menu 	open the options menu
6 	scroll to Conference
7 Action 	make a conference call

Making a Call from a Conference Active

You can break 1 call out of a conference and make this call active while the rest of the conference is on hold.

In a conference call:

Press	To
1 Menu 	open the options menu
2 	scroll to Private
3 Action (○)	select Private
4 	scroll to a desired call
5 Action (○)	make the call active

Tip: Press **End**  to end an active call when multiple parties are connected.

Forwarding Calls



You can forward all or selected calls to another number.

Find the Feature

Start  > **Settings** > **Phone** > **Call Forwarding**



Barring Calls



You can block incoming and/or outgoing calls.

Find the Feature

Start > Settings > Phone > Call Barring

Monitoring Phone Use

Call Timers contains the length of your last call, the total number of calls made and received, calls by type (**Incoming**, **Outgoing**, **Roaming**, and **Data**), and a lifetime counter. You can use **Call Timers** to keep track of your calling patterns, to help you choose a calling plan or estimate your monthly billing.



Call Timers	
Last call:	
00:03	
All calls:	
7:52:16	
Incoming calls:	
05:08	
Outgoing calls:	
01:26	
Roaming calls:	
Done	Menu

Find the Feature

Start > Call History
> Menu > View Timers

Opening Applications with Speed Dial

You can quickly launch applications by assigning speed dial numbers. Press and hold 1 or 2 keys from the Home screen to make a speed dial command. Choose speed dial entries from 2-99. The speed dial entry 1 is often reserved to set up or dial your voicemail after initial setup.

To assign an application a speed dial number:

Find the Feature

Start 

Press	To
1 	scroll to a desired application
2 Menu 	open the options menu
3 Action 	select Add Speed Dial
4  left/right	select a speed dial entry under Keypad assignment
5 Done 	save the setting

To quickly open an application from the Home screen:

Action

Press and hold the keypad number that you have assigned as a speed dial command. If the keypad assignment has 2 digits, press the 1st digit, then press and hold the 2nd digit.



Using Voice Activation

You can open an application or contact card by speaking a word.

Note: The voice recognition application works only via the phone directly or a wired headset attached to the phone, but not with a Bluetooth headset.

Opening an Application by Voice

On the Home screen:

Action

- 1 Press and hold  up to open **Speech Recognition**.
- 2 Say the name of the application you want to open preceded by **Open** (for example, saying "Open Calendar").



Customizing the List of Applications That Can Be Opened by Voice

On the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

Press

To

- 1 **Settings**  open the settings menu

Press	To
2 	scroll to Application Launcher
3 Action (○)	select Application Launcher
4 	scroll to an application you want to open by voice
5 Action (○)	check the application

Adjusting the Command Sensitivity Setting

If the phone seldom recognizes your commands, follow the steps from the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

Press	To
1 Settings 	open the settings menu
2 	scroll to Sensitivity
3 Action (○)	select Sensitivity
4 Action (○)	select Commands
5  down	adjust the Commands setting toward Reject Less
6 OK 	save the setting



Adjusting the Speed Setting

If you want the phone to initiate your commands faster, follow the steps from the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

	Press	To
1	Settings 	open the settings menu
2		scroll to Sound
3	Action (○)	select Sound
4		scroll to Name Settings
5	Action (○)	select Name Settings
6	Action (○)	select Speed
7	 up	adjust the Speed setting toward Faster
8	OK 	save the setting

Viewing Your Contact Card by Voice

Name Lookup lets you view any contact card saved in **Contacts** by voice.

On the Home screen:

Action

- 1 Press and hold  up to open **Speech Recognition**.
- 2 Say **Name Lookup**.
- 3 Say the name exactly saved in your contacts list.

Changing How Phone Book Works with Your Contact Card

By default, **Name Lookup** automatically retrieves contact information for any name in your contacts list by saying that name. If you want to review and confirm names before retrieving contact information, you must enable **Name Lookup Choice Lists**. Follow the steps from the Home screen:

Action

Press and hold  up to open **Speech Recognition**.

Press	To
1 Settings 	open the settings menu
2 	scroll to Choice Lists



Press	To
3 Action (○)	select Choice Lists
4 	scroll to Name Lookup
5 Action (○)	select Name Lookup
6 	scroll to Always On
7 OK 	save the setting

Making Data Calls



Use **Data Connections** settings to set up General Packet Radio Service (GPRS), dial-up, Virtual Private Network (VPN), and proxy

connections so you can connect to the Internet or your corporate network. With a data connection, you can

browse the Web, download email, chat using **MSN® Messenger** or **IM Chat**, or synchronize wirelessly with the server.

Note: Your phone has already been configured to allow you to browse and chat. Contact your IT manager for information on mobile Internet plans, configuring email or wireless synchronizing with the server.

There are 4 main data connections:

Data connection	Description
Internet connection	connect to your Internet service provider

Data connection	Description
Work connection	connect to your work place network
WAP connection	use WAP connection settings
Secure WAP connection	use secure WAP (WAPS) connection settings

Using Dial-Up Connection

You need to set up a dial-up connection to connect directly to the Internet or your corporate network.

Creating a Dial-Up Connection to the Internet

On the Home screen:

Find the Feature

Start  > Settings
 > More > Data Connections >
 Menu  > Edit Connections >
 Dial-up Connections > Menu  > Add



Fill in the blanks with the appropriate information:

Option	Description
Description	enter a name for the connection
Connects to	press  left/right to select The Internet
Phone number	enter in your phone number
User name	enter in your user name
Password	enter in your password
Domain	enter in your domain name

Note: Remember to press **Done**  when you are ready.

Creating a Dial-Up Connection to Your Corporate Network

On the Home screen:

Find the Feature

Start  > **Settings**

> **More** > **Data Connections** >

Menu  > **Edit Connections** >

Dial-up Connections > **Menu**  > **Add**

Fill in the blanks with the appropriate information:

Option	Description
Description	enter a name for the connection
Connects to	press  left/right to select Work
Phone number	enter in your phone number
User name	enter in your user name
Password	enter in your password
Domain	enter in your domain name

Note: Remember to press **Done**  when you are ready.

Creating VPN Connection

A VPN connection accesses your corporate network by using an existing Internet connection.

On the Home screen:

Find the Feature

Start  > Settings
> More > Data Connections >
Menu  > Edit Connections >
VPN Connections > Menu  > Add

Fill in the blanks with the appropriate information:

Option	Description
Description	enter a name for the connection
VPN type	press  left/right to select a VPN type
Server	enter in your server name
Connects from	press  left/right to select The Internet
Connects to	press  left/right to select Work
User name	enter in your user name
Password	enter in your password
Domain	enter in your domain name

Note: Remember to press Done  when you are ready.



Creating Proxy Connection

A proxy connection accesses the Internet using an existing connection to your corporate network.

On the Home screen:

Find the Feature

Start  > **Settings**
> **More** > **Data Connections** >

Menu  > **Edit Connections** >

Proxy Connections > **Menu**  > **Add**

Fill in the blanks with the appropriate information:

Option	Description
Description	enter a name for the connection
Connects from	press  left/right to select Work
Connects to	press  left/right to select The Internet
Proxy (name:port)	enter in your proxy server name and port
Type	press  left/right to select a proxy server type Tip: Select Socks4 to use MSN[®] Messenger or IM Chat .
User name	enter in your user name

Option	Description
Password	enter in your password

Note: Remember to press **Done**  when you are ready.

Creating GPRS Connection

A GPRS connection accesses the Internet, MMS network, (secure) WAP network, or corporate network by using an access point your service provider provides.

On the Home screen:

Find the Feature

Start  > **Settings**

> **More** > **Data Connections** >

Menu  > **Edit Connections** >

GPRS Connections > **Menu**  > **Add**

Fill in the blanks with the appropriate information:

Option	Description
Description	enter a name for the connection
Connects to	press  left/right to select a network connection
Access point	enter in your access point
User name	enter in your user name
Password	enter in your password
Primary DNS	enter in your primary DNS
Secondary DNS	enter in your secondary DNS



Option	Description
IP address	enter in your IP address

Note: Remember to press **Done**  when you are ready.

Synchronizing Information among Devices



You can use Microsoft® **ActiveSync** to synchronize information on your desktop computer and/or a Microsoft Exchange Server with the information on your phone. **ActiveSync**® compares your phone's information with the information on the desktop computer and/or the server, and then updates all locations with the most recent information. Connecting to a company server requires assistance from an Information Technology (IT) professional. With **ActiveSync**, you can:

- Keep your Outlook® information up-to-date by synchronizing your phone with your desktop computer.
- Synchronize **Inbox**, **Calendar**, and **Contacts** with a server so that you have the latest information, even when your desktop computer is turned off.
- Copy (rather than synchronize) files between your phone and your desktop computer.
- Control when synchronization occurs by selecting a synchronization schedule.
- Select which information types are synchronized and control how much information is synchronized. For

example, you can choose how many weeks of past appointments to synchronize.

Tip: Using **ActiveSync**, you can synchronize information directly with a Microsoft Exchange Server if your computer is running **Microsoft Mobile Information Server 2002** or later. For more information about **ActiveSync**, see **ActiveSync Help** on your desktop computer.

Installing ActiveSync on Your PC

ActiveSync is already installed on your phone. Install **ActiveSync** (3.7.1 or later) using the companion CD included in your box or download from the Microsoft® website (<http://www.microsoft.com>) by entering the word **ActiveSync** in the search dialogue box.

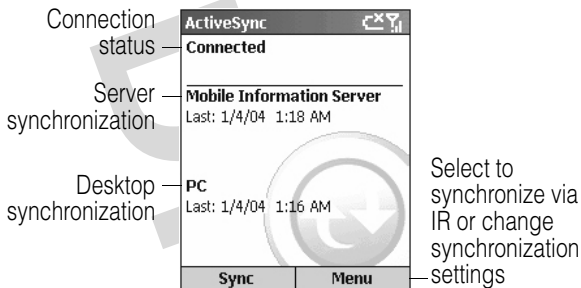
Creating a Partnership

After the installation is complete, the **New Partnership Wizard** helps you set up a partnership between your phone and your desktop computer and/or a server so that you can start synchronizing information and customizing your synchronization settings. Your first synchronization process automatically begins when you finish using the wizard. After the first synchronization, your Outlook information appears on your phone.

Note: If you have a firewall on your desktop, the wizard may cause difficulties establishing your partnership with your phone. To prevent synchronization problems, select **Synchronize with Microsoft Mobile Information Server** and/or this desktop computer in the **New Partnership Wizard** only if



your computer is running **Microsoft Mobile Information Server 2002** or later and you know the server name.



Starting and Stopping Synchronization



Connect your phone and desktop computer using the infrared port on your phone or using the USB data cable before you begin to synchronize information.

Find the Feature

Start  > **ActiveSync**

	Press	To
1	Sync 	start synchronization
2	Stop 	stop synchronization

Setting Up Server ActiveSync

Before you can synchronize information with a server, you may need to request server configuration information, such as your user name, password, and the name of the Microsoft® Mobile Information Server, either from your

service provider or network administrator. This configuration information may have already been set up on your phone.

Find the Feature Start > **ActiveSync**

Press	To
1 Menu 	open the options menu
2 Action (○)	select Options
3 	scroll to Server Settings
4 Action (○)	select Server Settings
5 	scroll to Connection
6 Action (○)	select Connection

Fill in the blanks with the appropriate information:

Option	Description
User name	enter in your Microsoft Exchange user name
Password	enter in your Microsoft Exchange password
Domain	enter in your Microsoft Exchange Server domain name (if required)
Save password	press  left/right to check this feature so that you need not enter it repeatedly



Option	Description
Server Name	enter in your Microsoft Mobile Information Server name

Note: Remember to press **Done**  when you are ready.

Stopping Synchronizing an Information Type with a Server

You can stop your phone synchronizing an information type with a server. However, to change to synchronizing with your desktop computer instead, you need to change the synchronization settings on the desktop computer. For more information about synchronization, see **ActiveSync**

Help on the desktop computer.



Find the Feature

Start  **> ActiveSync**

Press	To
1 Menu 	open the options menu
2 Action (○)	select Options
3 	scroll to Server Settings
4 Action (○)	select Server Settings
5 	scroll to the information type that you no longer want to synchronize with a server, such as Calendar , Contacts , or Inbox
6 Action (○)	select the information type

Press	To
7  left/right	clear the check box next to the information type that you no longer want to synchronize with a server
8 Done 	save the setting

Synchronizing Remotely

You can synchronize remotely with your computer or server after setting up server **ActiveSync**.

Synchronizing Remotely with a Desktop Computer

Find the Feature **Start**  > **ActiveSync**

Press	To
1 Menu 	open the options menu
2 Action (○)	select Options
3 	scroll to PC Settings
4 Action (○)	select PC Settings
5 Done 	save the settings



Fill in the blanks with the appropriate information:

Option	Description
Use	press  left/right to select the appropriate computer name
Use mobile schedule to sync with this PC	press  left/right to check this feature if you want to use a synchronization schedule to sync with your PC
Sync with this PC during manual sync	press  left/right to check this feature if you want to sync with your PC manually

Note: Remember to press **Done**  when you are ready.

Tip: To synchronize remotely with a desktop computer, first turn on the computer.

Synchronizing Remotely with a Server

You can also set up a connection to synchronize remotely with a server when you first create a partnership between your phone and desktop computer.

Find the Feature

Start  **> ActiveSync**

	Press	To
1	Menu 	open the options menu
2	Action ()	select Options

Press	To
3 	scroll to Server Settings
4 Action (○)	select Server Settings
5 	scroll to the information type to sync with the server
6 Action (○)	select the information type
7  left/right	check the check box next to the information type
8 Done 	save the settings

Creating a Server Synchronization Schedule

You can create a server synchronization schedule so that your information is automatically synchronized with the server at specified time intervals.



Creating a Schedule to Sync with a Server When Your Phone Is Connected to a Desktop Computer

Find the Feature **Start**  > **ActiveSync**

Press	To
1 Menu 	open the options menu
2 Action (○)	select Options
3 	scroll to Server Settings
4 Action (○)	select Server Settings

Press	To
5 	scroll to Connection
6 Action (○)	select Connection
7 Menu (⌵)	open the options menu
8 Action (○)	select Rules
9  left/right	select a time interval to sync with your server
10 Done (⌵)	save the setting

Creating a Schedule to Sync with a Server When Your Phone Is Not Connected to a Desktop Computer (Synchronizing Wirelessly)



Find the Feature **Start** (⌵) > **ActiveSync**

Press	To
1 Menu (⌵)	open the options menu
2 Action (○)	select Options
3 Action (○)	select Mobile Schedule
4  left/right	select a length of time
5 Done (⌵)	save the settings

Synchronizing Using an Infrared Connection

You can use an infrared connection to quickly create a direct connection between your phone and another mobile device or desktop computer. This method is ideal for changing between multiple devices, because there are no cables or adapters to change. For more information about synchronizing using an infrared connection, see **ActiveSync Help** on your desktop computer.

Note: Align your phone to your personal computer or mobile device when using an infrared connection to synchronize information.

Viewing the Information on ActiveSync Errors

Whenever **ActiveSync** cannot successfully synchronize your information, an error displays on your phone.

Press	To
Action (○)	display more information about the error that occurred

Note: Some types of errors can interfere with automatic synchronization. If you suspect that a scheduled automatic synchronization has not occurred, you should attempt to manually synchronize your information. Successfully completing manual synchronization resets automatic synchronization.



Exchanging Files between Your Phone and Desktop PC

With **ActiveSync**, you can exchange files between your phone and desktop PC.

Action

- 1 Connect your phone to your desktop computer.
- 2 On your computer, open **ActiveSync** and click **Explore**. **Windows Explorer** opens the **Mobile Device** window for your phone.
- 3 In **Windows Explorer**, browse to the file that you want to copy to your phone or desktop computer.
- 4 To copy the file to your phone, right-click the file and select **Copy**. Place the cursor in the desired folder for your phone, right-click, and select **Paste**.

or

To copy the file to your desktop computer, right-click the file and select **Copy**. Place the cursor in the desired folder for your desktop computer, right-click, and select **Paste**.

Beaming Information

You can use your phone's infrared port to send and receive (beam) calendar appointments and contact cards between your devices and synchronize information with another mobile device or desktop computer that has an infrared port.



Beaming a Contact Card

Find the Feature

Start  > **Contacts**

Press	To
1 	scroll to a desired contact to beam
2 Menu 	open the options menu
3 	scroll to Beam Contact
4 Action (○)	select Beam Contact
5 	scroll to a desired IR device your phone searches in it's range
6 Action (○)	select the device
7 Beam 	beam the contact
Note: To beam the contact over IR, align the infrared ports so that they are unobstructed and within close range of each other.	

Status information then displays the name of the device your phone is beaming to, and whether the beaming process is pending, done, or failed.



Beaming an Appointment

Find the Feature

Start  > Calendar

Press	To
1 	scroll to a desired appointment to beam
2 Action 	open the appointment
3 Menu 	open the options menu
4 	scroll to Beam Appointment
5 Action 	select Beam Appointment
6 	scroll to a desired IR device your phone searches in it's range
7 Action 	select the device
8 Beam 	beam the appointment
Note: To beam the appointment over IR, align the infrared ports so that they are unobstructed and within close range of each other.	

Status information displays the name of the device your phone is beaming to, and whether the beaming process is pending, done, or failed.

Receiving Beamed Information

Find the Feature

Start  > Settings > Beam

Press	To
1  left/right	check Receive incoming beams
2 Done 	receive beamed information
Note: To receive beamed information over IR, align the infrared ports so that they are unobstructed and within close range of each other.	

Note: Your phone can receive beamed files of any type, but some files must need to be copied to your desktop computer for viewing.



Using a Bluetooth® Connection

You can use a Bluetooth connection to quickly create a direct connection between your phone and another Bluetooth-enabled mobile device or desktop computer. This method is ideal for changing between multiple devices, because there are no cables or adapters to change.

Creating a Partnership from Your Phone with a Bluetooth Device

Find the Feature

Start  > Settings > Bluetooth
> Menu  > Devices >
Menu  > New

Press	To
1 	scroll to the Bluetooth device you want to pair with
2 Add 	select the device
3 keypad keys	enter a PIN on your phone to create the partnership
4 keyboard keys	enter the same PIN on the Bluetooth device
5 Done 	save the setting

Tip: You can stop a search if a device is found by pressing Add  .

Note: When your phone is creating a bond with a device that has headset or handsfree capabilities, you are notified through the dialog boxes to set up that device as your Bluetooth headset or handsfree by pressing Yes  . When you are on a call using your Bluetooth headset, you can transfer audio to your phone's earpiece by using the menu options. If you want to transfer audio again to the headset, push the headset hardware button.

Accepting a Partnership from Your Phone

On a Bluetooth device, you can configure a partnership with your phone.

Find the Feature Start  > **Settings** > **Bluetooth**

Action

- 1 Under **Bluetooth**, press  left/right to select **Discoverable**. The Bluetooth radio turns on and makes your phone discoverable for 3 minutes.
- 2 On the Bluetooth device, select your phone and attempt to pair with it.
- 3 Enter the same PIN both on your Bluetooth device and on your phone to create the partnership.

The partnership is created. Your phone can now be used as a data modem. The phone automatically becomes a data modem over Bluetooth if a paired device attempts to connect to it.



Using Your Phone as a Modem



Using **Modem Link**, you can use your phone as an external modem for another device or computer by using an infrared or USB connection.

Note: When you connect your phone to your personal computer using a USB data cable, the screens shown and the step-by-step instructions are specific to Windows 2000 users. The screens may vary slightly by the Windows version. If you have a different version of Windows and have any further questions, please contact the computer's respective **Help** menu.

Installing Motorola a Wireless USB Modem



Downloading the .inf File to Your PC

You can download the USB driver (**Smartfon.inf**) to your C:\ drive from the Motorola MPx220 companion CD included in your retail box.

Manually Installing the Device Driver

Note: If your computer has automatically added Motorola MPx220 as a new modem device, you can skip the following steps.

Action

- 1 Connect your phone to your computer. Your computer may prompt you for the Motorola MPx220 wireless USB modem driver with a **New Hardware Wizard** menu screen. If it does not, proceed to **To Set Up a USB Modem Connection**.

Action

- 2 If the **Install Wizard** appears, click **Next** from the opening screen of the **Install Wizard** that states **Welcome to the New Found Hardware Wizard**.
- 3 Click on **Search for a suitable driver for my device** (recommended).
- 4 Next click **Specify a Location** and browse to the folder in which you downloaded the driver.
- 5 Click **Next** to allow your computer to automatically search and download the driver file and click **Finish**.
- 6 After installing the modem, disconnect your handset from the computer, and proceed to **To Set Up a USB Modem Connection**. The **Smartphone 2003 Wireless USB Modem** should now be properly listed in the **Device Manager** window.



Setting Up a Modem Connection

You can specify a type of connection (via USB or infrared) for your phone to link with another device.

Setting Up a USB Modem Connection

Action

- 1 Make sure that your phone is not connected to another device.
- 2 On the Home screen, press **Start** , select **More**, select **More**, select **More**, select **Accessories**, and select **Modem Link**.

Action

- 3 Under **Connection**, press  left/right to select **USB**.
- 4 Press **Menu**  and select **Activate**.
- 5 Now connect your phone to your computer with the USB data cable.

Setting Up an Infrared Modem Connection

Action

- 1 On the Home screen, press **Start** , select **More**, select **More**, select **More**, select **Accessories**, and select **Modem Link**.
- 2 Under **Connection**, press  left/right to select **IrCOMM**.
- 3 Press **Menu**  and select **Activate**.
- 4 Now connect your phone to your computer with the infrared port.

Querying a Modem

A modem query is necessary to establish a PC and modem connection.



Note: If the PC and modem connection is not established in approximately 30 seconds, **ActiveSync®** will take over the USB port.

Action

- 1 On your computer, click on **Start > Settings > Control Panel > System > Hardware > Device Manager > Modems**.
- 2 In the **Device Manager** window, double click on **Smartphone 2003 Wireless USB Modem**.
- 3 Select the **Diagnostics** tab and click **Query Modem**. The PC sends AT commands and if the modem replies back without an error, the modem is properly installed.

Adding an Initialization String

Add an extra initialization string to **Modem Properties** (change APN as needed). An extra initialization string is needed on your phone for setting up the GPRS server configuration. Contact your wireless service provider for the APN name, user name, and password.

Action

- 1 After querying the modem, click the **Advanced** tab in the **Modem Properties** dialogue window.
- 2 Type in your initialization string and change the APN name as needed.
- 3 For network's initialization string use the following: **+CGDCONT=1,"IP","apnname","",0,0**



Using the Motorola MPx220 Wireless USB Modem for Cable GPRS

Action

- 1 Activate the USB modem on your handset.
- 2 Establish a PC and modem connection (modem query or hyper terminal AT commands).
- 3 Add a dial-up connection using the wireless USB modem.

Adding a New Dial-Up Connection

Action

- 1 From the **Control Panel** select **Network and Dial-up Connection**.
- 2 Double click **Make New Connection** then click **Next**.
- 3 Select **Dial-up to Internet** then click **Next**.
- 4 From the **Internet Connection Wizard** select **Internet Connection Manually** then click **Next**.
- 5 Select **Connect Through Phone Line and Modem**.
- 6 From modem selection, scroll down to **Smartphone 2003 Wireless USB Modem** then click **Next**.
- 7 Under **Telephone Number** type the codes your network administrator provides and uncheck area codes and dialing rules then click **Next**.
- 8 Fill in the **User Name** and **Password** and click **Next**.
- 9 Type in connection name (i.e. Smartphone USB Cable GPRS) and click **Next**.



Action

- 10 Select **No** then **Next** and click **Finish**.

Note: Ensure **Smartphone 2003 Wireless USB Modem** is selected and the hardware features are properly configured before dialing.

Doubling Check Settings

Action

- 1 Open a newly created dial-up connection.
- 2 Click **Properties** and verify **Smartphone 2003 Wireless USB Modem** is selected.
- 3 Click **Configure** and ensure all hardware features are selected as shown above.
- 4 Click **OK** then **OK**.
- 5 After clicking **Dial** you should see **Opening, Dialing, Verifying User Name and Password and Registering Your Computer on the Network**. You are GPRS connected when the dial-up dialogue window changes to an icon in your icon tray.



Activating the Modem Link

After setting up your phone and your computer for the first time, in order to initiate the modem session on your device you need to perform the instructions described in each of the 2 sections: “Setting Up a USB Modem Connection” on page 127 if you use a USB data cable, or “Setting Up an Infrared Modem Connection” on page 128 if you use an infrared port.

Deactivating the Modem Link

Find the Feature

Start  > More > More > More
> Accessories > Modem Link
> Menu  > Deactivate

Note: Deactivate the modem link when you are finished using it in order to avoid potential problems when using **ActiveSync®** in the same session.

Changing the Order of Applications Displayed on the Start List

Favorites Manager allows you to select applications from the **Favorites Manager** list and change their positions shown on the Start list.

Find the Feature

Start  > More > Favorites Manager

	Press	To
1		scroll to a desired application
2	Action 	select the application
3	 up/down	move the selected application to a desired position
4	Action 	save the setting

Using File Viewer

Note: Whether your phone is equipped with **File Viewer** is subject to your service provider.

File Viewer allows you to view the documents attached, locally stored, or stored on your storage card without any file-conversion or loss of content. It supports most common desktop document formats (including PDF, Word, Excel, PowerPoint...) and significant image formats (such as JPEG, GIF, PNG...).

By default, Microsoft ActiveSync converts documents that it recognizes to simpler formats. With **File Viewer**, this is not necessary. Before you synchronize emails or copy files to your phone for the 1st time, you should disable this conversion, or you will not be able to open the email attachments or copied files with **File Viewer**. Go to the ActiveSync® **Tools > Options** on your computer, then to the **Rules** tab, and click on **Conversion Settings**. Uncheck “**Convert files when synchronized, copied or moved**”; then click on **OK** in each dialogue box.

Tip: To send emails with attachments, press **Start**  **> More > File Manager > scroll to the file you want to send > press Menu**  **> Send&Receive> Send by E-mail.**

To view a document on your phone:

Find the Feature

Start  **> More > File Viewer**

Press

To

1



scroll to a desired folder





Press	To
2 Action (○)	select the folder
3 	scroll to a desired folder or file
4 Action (○)	select the folder or file Tip: Repeat steps 3-4 until your desired file is found.
5 Action (○)	launch the document zooming mode with  displayed in the bottom right corner of the screen. Tip: Press Hide Mode  to keep  from displaying on the screen.
6  up/right or  down/left	zoom the selected file in or zoom the selected file out Tip: Press and hold  to continuously magnify or minify the size of the selected document.

Press	To
7 Action (○)	switch to the document scrolling mode with  displayed in the bottom right corner of the screen. Tip: Press Hide Mode  to keep  from displaying on the screen.
8  up/down/ left/right	view the different part of the selected file Tip: Press and hold  to continuously move the page in the desired direction.

The menu options for folders or files are described below.

Option	Description
Document View/ Folders	switch between the document you are viewing and the entire file structure. To go to the folder above, tap the Up directory icon  in the corner.
Page	rotate the screen, fit the size of the file to the width of the screen (which may leave blank areas depending on the aspect ratio), or move to the page of the selected document you want to view.





Option	Description
Favorites	add the selected document to the Favorites list and it is displayed as a thumbnail image or remove a desired document from the Favorites list by pressing Add/Delete  .
History	display the file(s) you have viewed. Press Action  to open files from the History list.
Settings	define how long you want the files stored on the History list or clear the history records immediately. You can also select file types to associate with File Viewer , learn how to use File Viewer and view the details about it.
Close	exit from File Viewer .

You can also use the keypad to zoom pages in or out, view different parts of pages, navigate among pages, rotate pages and fit the size of pages to the width of the screen.

Press	To
	go to the previous page of the selected document.
	scroll the page you are viewing up.
	go to the next page of the selected document.
	scroll the page you are viewing left.

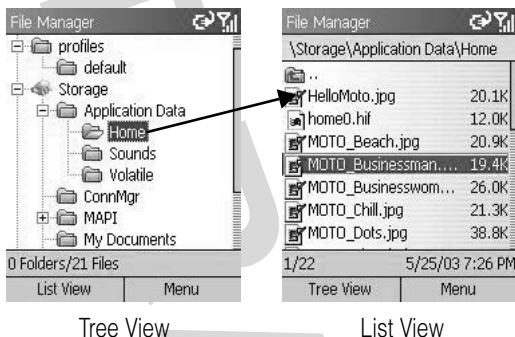
Press	To
	rotate the page you are viewing 90 degrees counterclockwise/clockwise.
	scroll the page you are viewing right.
	go to the 1st page of the selected document.
	scroll the page you are viewing down.
	go to the last page of the selected document.
	fit the size of the page you are viewing to the width of the screen.
	zoom the page you are viewing in.
	zoom the page you are viewing out.



Managing Files

File Manager is for file and folder management in your phone.

It operates in 2 major views, **Tree View** and **List View**.



Tree View

List View

Find the Feature

Start  **> More > File Manager**

Option	Description
Tree View	displays the entire file structure in your phone's memory. The functions in Tree View primarily focus on folder management (operates similar to Microsoft Windows File Explorer).
List View	displays the details of the selected folder (its sub-folders and files). The functions in List View are basically file-oriented.

Starting File Manager

There are a variety of key features for **File Manager**:

- Send the selected files via email, infrared beaming, MMS, or Bluetooth radio, and receive files via infrared beaming or Bluetooth radio.
- Delete, move, or copy/paste folders and files.
- Search for files according to portions of filenames and/or text contained in the files.
- View file or folder properties.
- View information about memory utilization, device, storage card, and battery power.
- Sort listed files in a variety of ways (by **Name**, **Size**, **Date of Last Change**, or **Type**, and by **Ascending** or **Descending**).
- Create file shortcuts.

When **File Manager** is initially invoked, it is in **Tree View** by default. To switch to **List View**, press **List View** . If the currently selected folder contains no subfolders, pressing **Action** () will also switch to **List View**. If the selected folder in **Tree View** contains subfolders, press **Action** () to expand or collapse the tree for that folder. For most functions, you must first select the file or folder you wish to operate on, then press **Menu**  to select the desired command from the menu. Press **Action** () to run the selected file.



Managing Phone System Resources

Resource Manager allows you to view and refresh the details of battery power status and phone memory amount. It consists of two features: **Task Manager** and **Space Manager**.

Option	Description
Task Manager	lists all applications currently running on your phone. You can easily activate any currently running application, terminate applications, and refresh the list of running applications.
Space Manager	lists all emails, SMS messages, voice notes, speed dials, and call history stored on your phone's flash memory. You can easily delete any of the files saved on the flash memory and refresh the amount of free flash memory.

Using Task Manager

Find the Feature

Start  > More > More >
Resource Manager > Menu  >
Task Manager

The menu options for **Task Manager** are listed below:

Option	Description
Kill	terminate the selected application
Kill All	terminate all running applications
Kill All Except Selected	terminate all running applications except the selected one
Go To	open the selected application
Refresh	refresh the list of running applications

Tip: To exit from **Task Manager**, press **Quit** .

Using Space Manager

Find the Feature

Start  > **More** > **More** >
Resource Manager > **Menu**  >
Space Manager

The menu options for **Space Manager** are listed below:

Option	Description
Erase Messages In Inbox...	delete all messages in the selected folder from any of your accounts
Erase Call History	clear call history
Erase Speed Dial	delete all speed dial settings
Erase Voice Notes	delete all voice notes



Option	Description
Erase All	delete all messages, call history, speed dials, and voice notes
Refresh	refresh the free flash memory amount

Tip: To exit from **Space Manager**, press **Quit** .

Removing Programs

Remove Programs settings lets you remove programs installed on your phone, with the exception of core programs that came with the phone, such as **Contacts**, **Calendar**, and **Internet**

Explorer®. If you accidentally remove a program on the device, you can find it on the companion CD to reinstall.



Find the Feature

Start  **> Settings > More > Remove Programs**

Personal Organizer

This chapter introduces features on your phone that help you manage and keep track of contacts and appointments, maintain a “things to do” list and use the calculator.

Using Contacts

Contacts	
Arifin, Zainal	w
Arthur, John	w
Ashton, Chris	w
Bacon Jr., Dan K.	w
Baker, Mary	w
Bankert, Julie	w
Camargo, Gustavo	h
Campbell, David	w
Duffy, Terri Lee	w
New	Menu

Find the Feature

Start  > **Contacts**

Tip: You can also access **Contacts** by pressing **Contacts**  on the Home screen.

You can think of **Contacts** as an address book, where you store information about people and businesses you communicate with in contact cards. For example, you can store multiple phone numbers, email, and street addresses, Web pages, and other information on such as a birthday or anniversary date. You can use **Contacts** to dial phone numbers and compose email and SMS messages directly from a contact card.





The contacts list displays the names of your contact cards alphabetically, along with an abbreviation for the default communication method, such as the person's work phone number (**w**) or home phone number (**h**).

Note: If the contact card includes a work phone number, your phone will automatically set it as the default number. The contact cards along with the icon  are the entries stored on your SIM card.

The following table shows possible abbreviations and their meanings that might display in your contacts list.

Abbreviation	Description
w	work phone
w2	2nd work phone
h	home phone
h2	2nd home phone
m	mobile phone
pgr	pager
car	car phone
txt	SMS address (SMS phone number)
e	email address
e2	2nd email address
e3	3rd email address
web	web page

Creating a New Contact

Press	To
1 New 	open an empty contact card
2 keypad keys	enter the appropriate information
3 Done 	save the contact

Tip: When you create a new contact on your phone, you can synchronize **Contacts** with your desktop computer or a server to keep your contact information current in all locations.

Viewing a Contact



Number with a black dot denotes default number

- w Work number
- m Mobile number
- e Email address
- txt SMS message number

Press	To
1 	scroll to a desired contact
2 Action 	view the contact





The following table lists the contact card menu options and their functions.

Option	Description
Add Speed Dial *	create a shortcut to the selected phone number, email address, or Web URL by assigning 1 or 2 numbers as a speed dial
Send Text Message	compose and send SMS message to the selected contact
Save to SIM/ Save to Contacts	copy the selected contact saved in your phone to the SIM card or vice versa
Set as Default	set the selected phone number, email address, or SMS number as the default communication method for the contact
Beam Contact	send the selected contact card to another mobile device or desktop computer using infrared
Delete	remove the selected contact card from the contacts list
Edit	modify information on the selected contact card

* This feature is available only for the contacts saved in your phone memory.



Sending an Email from a Contact

Press	To
1 	scroll to a desired contact
2 Action (○)	open the contact
3 	scroll to a desired email address
4 Action (○)	select the email address
5 	scroll to Outlook E-Mail
6 Action (○)	select Outlook E-Mail
7 keypad keys	enter your subject
8  down	go to the body text field
9 keypad keys	edit your message
10 Send 	send the message to the selected contact

Sending an SMS Message from a Contact

Press	To
1 	scroll to a desired contact
2 Action (○)	open the contact
3 	scroll to the SMS message number



Press	To
4 Action (○)	select the SMS message number
5 keypad keys	edit your message
6 Send (✓)	send the message to the selected contact

Using Calendar

Calendar is your phone's scheduling program, where you can create and view appointments, and view your **Calendar** by day, week, or month.

Find the Feature **Start** (✓) > **Calendar**

Creating a New Appointment

Press	To
1 Menu (☰)	open the options menu
2 Action (○)	select New
3 keypad keys	edit the appointment
	Tip: Under Reminder , select the amount of time you want the reminder to appear before the appointment.
4 Done (✓)	save the appointment

Tip: When you create a new appointment on your phone, you can synchronize **Calendar** with your desktop computer or

a server to keep your schedule information current in all locations.

Viewing an Appointment

Press	To
1 	scroll to a desired appointment
2 Action (○)	display the appointment

Using Schedule

You can view your schedule in **Calendar** using 3 different views: **Agenda View**, **Week View**, and **Month View**.

Find the Feature

Start  > **Calendar**

Using Agenda View

Agenda View is the default view for calendar information. This view displays meetings and appointments scheduled for the current day. The appointments appear in chronological order according to start time.

Viewing Your Agenda for the Current Day

Press	To
1 Menu 	open the options menu (if you are using the Week View or Month View)
2 	scroll to Agenda View



Press	To
3 Action (○)	select Agenda View

Tip: To look at your agenda for previous or approaching dates, press  left/right.

Viewing Your Agenda for a Specific Date

Press	To
1 Menu 	open the options menu
2 	scroll to Go to Date
3 Action (○)	select Go to Date
4 keypad keys	enter the date you want to view
5 Done 	display the agenda

Using Week View



The **Week View** shows your schedule for the specified week. This view allows you to get a quick indication of your free and busy time, and allows you to create an appointment at a selected time easily. The **Week View** displays the hours in 1-hour increments by default on the left side of the screen. You can press  up/down to navigate through the hours on the screen.

Note: If you press  up/down and leave the **Week View**, the hours last shown will be displayed the next time you return to the **Week View**.

Press	To
1 Menu 	open the options menu
2 	scroll to Week View
3 Action (○)	select Week View

Tip: To change settings for **Week View**, press **Menu**  and select **Options**.

Using Month View

The **Month View** provides an overview of your monthly schedule. Arrow indicators pointing up represent morning appointments, and the arrows pointing down represent afternoon appointments. A hollow box indicates an all-day event. A solid box indicates you have morning and afternoon appointments. If you have morning and afternoon appointments plus an all-day event, a solid box is surrounded by a hollow box.

Press	To
1 Menu 	open the options menu
2 	scroll to Month View
3 Action (○)	select Month View



Using Tasks

You can use **Tasks** to track a personal or work-related project, assignment, or errand from beginning to completion. A task can occur once or repeatedly. A recurring task can repeat at regular intervals or repeat based on the date you mark the task complete. For example, you might want to pay a bill on the last Friday of every month, or get a haircut when one month has passed since your last haircut. The **Tasks** list shows your “things to do.” An item followed by an exclamation mark indicates high priority and an item with a down arrow is marked as low priority. Overdue tasks display bold and red. Completed tasks display with the corresponding check box selected.

Find the Feature Start  > More > More > Tasks

Note: If you synchronize **Tasks** with your desktop computer, completed tasks are removed from your phone after synchronization. They are then displayed in gray with a strikethrough on your desktop computer.

Creating a New Task

Press	To
1 	select the Enter new task here field
2 keypad keys	enter the task
3 Action ()	save the task



Tip: When you create a new task on your phone, you can synchronize **Tasks** with your desktop computer to keep your tasks list current in both locations. If you create a new task with a reminder on your desktop computer, you can synchronize **Tasks** so that you hear the reminder on your phone.

Marking a Task as Complete/Incomplete

Press	To
1 	scroll to a desired task
2 Complete 	mark the task as complete
or	or
Activate 	mark the task as incomplete

Using Voice Recorder

Use **Voice Recorder** to create short voice recordings. Recordings are included in the **All Notes** list and are named consecutively (**Recording1**, **Recording2**, and so on).

Find the Feature

Start  **> More > More > Voice Recorder**

Tip: On the Home screen, press and hold  down to quickly open **Voice Recorder**.



Creating a Voice Note

Action

- 1 Hold your phone's microphone near your mouth.
- 2 Press **Record**  to begin recording your voice note.
- 3 Press **Stop**  to stop recording your voice note.

Note: The length of time to record a voice note depends on the remaining phone storage.

Playing a Voice Note

Press

To

- 1  scroll to a desired voice note
- 2 **Action**  play the voice note

Using Calculator

You can use **Calculator** to perform any of the standard operations for which you would normally use a handheld calculator. **Calculator** performs basic arithmetic, such as addition, subtraction, multiplication, and division.

Find the Feature

Start  > **More** > **More** > **More** > **Accessories** > **Calculator**

Press

To

- 1 number keys enter numbers



Press	To
2 	select a mathematical symbol
3 	enter a decimal point
4 Clear 	delete the last input
or	
Back 	
5 Action (○)	perform the calculation

Tip: You can also press  to display the available mathematical symbols. Press Up for the plus sign (+), Down for the minus sign (-), Left for the division sign (/), and Right for the multiplication sign (x).



Security

Use **Security** settings to turn on phone lock or SIM lock and to set the phone lock password.

Locking and Unlocking the Keypad

The keypad lock turns off the keypad function to prevent accidental keypresses.

Locking the Keypad

On the Home screen:

Action

Press and hold **End** . The left soft key displays **Unlock**, indicating that the keypad is locked.

Unlocking the Keypad

On the Home screen:

	Press	To
1	Unlock 	prepare to unlock the keypad
2		unlock the keypad

Tip: You still can receive calls and make emergency calls when the keypad is locked.



Locking and Unlocking Your Phone

Locking the phone prevents access to personal data. When you turn on this feature, the phone automatically locks after a specified time of inactivity. A screen displays requiring your phone lock password before access is granted.

Tip: You still can receive calls and make emergency calls when the phone is locked.

Locking the Phone

On the Home screen:

Press	To
1 Home  for a while	open the Quick List
2 	scroll to Device lock
3 Action (○)	select Device lock
4  left/right	select a time period the phone is inactive before it automatically locks under Lock phone after
5 keypad keys	enter the password you want to use to access the phone when it is locked under Password





Press	To
6 keypad keys	enter the password again under Confirm password
7 Done 	save the settings

Tip: After you select the time delay and create a password, you can quickly lock your phone from the **Quick List**, without having to view these settings.

Unlocking the Phone

On the Home screen:

Press	To
1 Unlock 	prepare to enter the password
2 keypad keys	enter the password
3 Unlock 	unlock the phone

Turning Off Phone Lock

Find the Feature

Start  > **Settings** > **More** > **Security**

Press	To
1 	scroll to Disable Phone Lock
2 Action (○)	turn off phone lock

Locking and Unlocking Your SIM Card

Locking the SIM card prevents you and others from using your phone until the correct password is entered. You still can make emergency calls when the SIM card is locked.

Locking the SIM Card

Find the Feature

Start  > Settings > More > Security > Enable SIM Lock

Press	To
1 keypad keys	enter your PIN1 password
2 Done 	lock your SIM card

Unlocking the SIM Card

Find the Feature

Start  > Settings > More > Security > Disable SIM Lock

Press	To
1 keypad keys	enter your PIN1 password
2 Done 	unlock your SIM card





News and Entertainment

Taking Pictures

You can capture images and store them in your phone or memory card. There are 3 different modes to capture photos: **Normal**, **Timer**, and **Burst**.

Using Normal Mode

Normal mode is selected as the default when you launch **Camera**.

Find the Feature

Start  > **More** > **Camera**

	Press	To
1	 up/down	zoom in/out (when the flip is opened and the internal viewer is used)
2	 left/right	decrease/increase the brightness



Press	To
3 Capture  / Action () / ()	take a picture (when the flip is opened and the internal viewer is used)
or	or
()	take a picture (when the flip is closed and the external viewer is used)
4 Menu 	open the options menu
5 Action ()	select Store in Album and the picture is saved in Start  > More > PhotoAlbum
Tip: Press Discard  if you do not want to save the current photo.	

The menu options before taking pictures are described below.

Option	Description
Mode	switch between Normal , Timer , and Burst modes
Enable/Disable Flash	turn on/off the flash
Settings	open the Camera Settings menu (see below)
Browse Photos	go to Start  > More > PhotoAlbum to view photos



Option	Description
Record Video	go to Start  > More > More > More > Accessories > Camcorder to create video clips

The menu options after taking pictures are described below.

Option	Description
Store in Album	store the photo in Start  > More > PhotoAlbum
Send in Message	open Start  > Messaging > Media Messages with the photo attached
Apply as Wallpaper	set the photo as your wallpaper (Choose either Fit in or Best fit . The former displays the entire photo, which may leave blank areas depending on the aspect ratio. The latter crops the photo and fills it entirely on the screen.)
Attach to Contact	set the photo as Caller ID to the selected contact (The photo displays when you receive the call.)

The **Camera Settings** menu options are described below.

Option	Description
White balance	choose from a variety of presets depending on your shooting conditions
Resolution	select the size of captured photos (The higher the resolution, the more space required to store the image on your phone.)
Storage folder	choose a different folder to store your captured photos by pressing Change 
File size restriction	choose to keep your files under 100KB , or place no constraint at all
Max idle time	set the time it takes for the camera to turn off when no action is taken in order to conserve power
Name prefix	enter in a prefix to save as the file name of your captured photos
Time stamp on picture	check this feature to include an overlay of the date on all of your captured photos
Contrast	set the default contrast for the viewer
Hue	set the default hue for the viewer
Saturation	set the default saturation for the viewer





Option	Description
Self-imaging Timer	set the duration of the timer for use when taking delayed photos in Timer mode
Max burst number	set the maximum number of images that can be taken at a time while in Burst mode

Using Timer Mode

Controls here are almost identical to **Normal** mode.

Find the Feature

Start  > **More** > **Camera** >

Menu  > **Mode** > **Timer**

Press	To
1 Start 	take a picture Note: There is a delay before the photo is taken. Your phone will beep for each second of the countdown (which can be adjusted in Menu  > Settings > Self-imaging Timer).
2 Menu 	open the options menu



Press	To
3 Action (○)	select Store in Album and the picture is saved in Start [Start] > More > PhotoAlbum Tip: Press Discard [Discard] if you do not want to save the current photo.

Using Burst Mode

Find the Feature **Start** [Start] > **More** > **Camera** > **Menu** [Menu] > **Mode** > **Burst**

Press	To
1 Start [Start]	take pictures
2 Stop [Stop]	stop taking pictures and the pictures are stored in Start [Start] > More > PhotoAlbum

Using Self-Shot

You can take a shot of yourself and store it in your phone or memory card.

Find the Feature **Start** [Start] > **More** > **Camera**

Action
1 Close the phone flip and use the external viewer to capture images.
2 Press [Self-Shot] to take your picture.



Action

- 3 Open the phone flip.
- 4 Press **Menu**  > **Action**  to save the picture in **Start**  > **More** > **PhotoAlbum**.

Managing Pictures

You can use **PhotoAlbum** to view and edit images on your phone and send them via MMS, email, Bluetooth, or infrared. **PhotoAlbum** consists of 2 different modes: **Album** view and **Single Photo** view.

Using Album View

This view displays thumbnail images of photos stored in a specific directory.

Find the Feature **Start**  > **More** > **PhotoAlbum**

To open a photo, press the corresponding number. Or, press  to highlight the desired thumbnail and press

Open . See “Using Single Photo View” on page 168 for details on viewing single photos.

The menu options for **Album** view are described below.

Option	Description
Take new photo	go to Start  > More > Camera to take photos



Option	Description
Send via	send the current photo via MMS, email, Bluetooth, or infrared
Move	move the current photo to a folder of your choice
Copy	copy the current photo to a folder of your choice
Rename	change the name of the current photo
Delete	remove the current photo
Properties	display the current photo's resolution, date, color depth, etc.
Slide Show	play a slide show of all the photos in the current location
Change Folder	display photos contained in another folder of your choice
Attach to Contact	associate the current photo with a contact of your choice by pressing Attach 
View Photo Contacts	display a list of your contacts and let you detach any associated photos by pressing Detach 
Play Video	go to Start  > More > More > More > Accessories > Video Player to play video clips

Using Single Photo View

This view displays each photo on the screen.



Find the Feature

Start > More > PhotoAlbum

Press different keys to do the following:

- To open a photo, press the corresponding number. Or, press to highlight the desired thumbnail and press **Open** .
- Press up/left to display the previous photo in the current folder (if any) or press down/right to display the next photo in the current folder (if any).
- Press **Action** or **Back** to return to **Album** view.
- Press **Zoom** to zoom in/out commands. Press **Zoom in** to magnify; press **Zoom out** to minify. If your photo does not fit entirely on the display when zooming, press to scroll.

The menu options for **Single Photo** view are described below.

Option	Description
Rotate Left	rotate your photo 90 degrees to the left
Rotate Right	rotate your photo 90 degrees to the right



Option	Description
Crop	isolate a specific area of the photo (A crop box will appear, everything outside of the box will be removed. You can adjust the position and size of the box using the following 2 menu options.)
> Move	press  to move the crop box (Press Action  to toggle between Move and Resize for ease of use.)
> Resize	press  to resize the crop box (Press Up/Down to decrease/increase height; press Left/Right to make it narrower/wider. Press Crop It  when you are ready.)
Add Text	add additional lines of text to your photo using the following 5 menu options
> Edit text	modify the current line
> Delete text	remove the current line
> Change color	change the color of the current line
> Font size	change the size of the current line
> Switch	switch to the previous or next line of text to edit it



Option	Description
Add Clip Art	add a variety of fun and unusual images to your photo (The following 5 menu options are related to this feature.)
> Resize	press  to resize the clip art (Press Up/Left to make it smaller; press Down/Right to make it larger.)
> Reposition	press  to move the clip art around your photo (This is the default selection.)
> Rotate	press  up/left to rotate the clip art to the left; press  down/right to rotate the clip art to the right
> Switch	switch between different pieces of clip art you added
> Remove	remove the current piece of clip art
Add Frame	add a comical frame around your photo (The following 7 menu options are related to this feature.)
> Reposition	press  to move your photo within the frame (This is the default selection.)



Option	Description
> Resize	press  to resize the photo (Press Up/Left to make it smaller; press Down/Right to make it larger.)
> Rotate	press  up/left to rotate the photo to the left; press  down/right to rotate the photo to the right
> Flip horizontal	create a mirror image of your photo over the horizontal axis
> Flip vertical	create a mirror image of your photo over the vertical axis
> Crop	isolate a specific area of the photo (A crop box will appear, everything outside of the box will be removed. You can adjust the position and size of the box using the 2 menu options: Move and Resize .)
> Change frame	select a different template
Previous Photo	display the previous photo in the current location
Next Photo	display the next photo in the current location



Creating Video Clips

You can record video clips with or without audio and store them in your phone or memory card.

Find the Feature

Start > **More** > **More** > **More** > **Accessories** > **Camcorder**

Press	To
1 left/right	decrease/increase camera brightness level
2 Record	record a video clip
3 Pause	pause recording Tip: Press Action to toggle between the Record and Pause states.
4 Stop	stop recording
5 Save	save your recording in Start > More > More > More > Accessories > Video Player Note: If you do not make a selection within 3 seconds after stopping the recording, the recorded clip is automatically saved. Or press Delete to delete your recording.

The menu options for **Camcorder** are described below.

Option	Description
Video player	launch Camcorder
Image viewer	launch PhotoAlbum
Take Photo	launch Camera
Settings	open the Camcorder Settings menu (see below)
Audio	turn on/off audio capture
About	open the About dialog
Exit	exit from Camcorder

The **Camcorder Settings** menu options are described below.

Option	Description
Clip storage	select storage location of the recorded clips (Camcorder at startup determines Storage card as storage location if it is inserted. If no storage card is detected the value for Clip storage is changed to Phone memory .)
Contrast	adjust the recording contrast value
Brightness	adjust the recording brightness value
Record quality	switch among preset quality settings
Audio	turn on/off audio capture
Max clip size	specify maximum file size for a video clip
Clip name	select the default file name for the clip





Option	Description
Title	enter in the title of the clip
Author	enter in the author name of the clip
Copyright	enter in the copyright info of the clip
Rating	enter in the clip rating
Description	enter in the clip description

Playing Video Clips

You can play the recorded clips directly from your phone or memory card. You can also simultaneously download and play streaming clips from a Web site.

Tip: For best results and performance, store clips on the storage card instead of the phone memory.

Viewing a Clip Stored on Your Phone Or Memory Card

Find the Feature

Start > **More** > **More** > **More** > **Accessories** > **Video Player**

Press	To
1	scroll to a desired clip
2 Play	play the clip
	Tip: Press Pause to pause playing; press Stop to stop playing.

Tip: While the clip is playing, press and hold  left/right to reposition forward/backward in the clip. A single movement to the left or right position will reposition the clip to the end or beginning of the clip.

The menu options for **Video Player** are described below.

Option	Description
Play/Pause	play/pause a clip from the list
Open URL	edit a URL to link with
Camera	launch Camcorder
File > Rename/Delete/ Move to storage card	rename a clip/delete a clip/move a clip to the memory card
Send via MMS	send an MMS message with a clip attached
Properties	display a clip info
Options > Media Buffer	control the amount of data that is stored before playback begins (Increasing the media buffer may improve the consistency of your viewing experience, but will increase the time before the media playback starts.)
Options > Menu  > Clear Cache	clear the last download clip from your phone's cache memory
About	open the About dialog





Viewing a Live Stream from a Web Site



Find the Feature

Start  > Internet Explorer >

Menu  > Address Bar

Press	To
1 keypad keys	enter the Web address
2 Go 	connect to the Web address
3 	scroll to a desired stream
4 Action ()	play the stream

Tip: You can play a stream/clip directly from a link in email. Once you select the link and press **Action** () , **Video Player** will start playing the stream/clip. While the clip is playing, press and hold  left/right to reposition forward/backward in the clip. A single movement to the left or right position will reposition the clip to the end or beginning of the clip.

The related menu options are described below.

Option	Description
Play	play a clip you paused
Pause	pause a clip or stop a stream that is playing (This option is not available for live streaming.)



Option	Description
Clips	display a list of clips stored on your phone or memory card
Save	save a clip to your phone or memory card (This option is not available for live streaming.)
Options > Media Buffer	see above (This option is not available for live streaming.)

Using Internet Explorer®



Using **Internet Explorer**, you can browse the Web on your phone. **Internet Explorer** supports Wireless Application Protocol (WAP), Hypertext Markup Language (HTML), and compact Hypertext Markup Language (cHTML). It also supports images and sounds, but does not support frames on a Web page. With **Internet Explorer**, the Favorites list is displayed as the main screen instead of a home page. You can add your own favorites to this list for quick access to Web sites you frequently visit.

Find the Feature **Start**  **> Internet Explorer**

Tip: While you are connected to the Internet, to change between **Internet Explorer** and other programs on your phone, press **Home** . This will not close your Internet connection.

Viewing a Favorite



Press	To
1 	scroll to a desired favorite
2 Go 	connect to the favorite

Returning to the Previous Web Page

Press	To
Back 	go to the previous Web page in the same session

Disconnecting from the Internet

Press	To
End 	disconnect from the Internet

Use the menu options to do the following:

Option	Description
Address Bar	edit a Web address and link to it by pressing Go 
Address Bar > View History	press Go  to view a list of the most recently-visited Web pages
Refresh	update the Web pages you visited



Option	Description
Add Favorite	add a Web page to your Favorites list (Enter a name for the Web site as you want it to appear on the Favorites list. Press Add  when you are ready.)
Favorites	open the Favorites list
Layout	specify how Web pages display
Properties	view the Web page info
Add Folder	create a new folder in your Favorites list
Edit	edit the current favorite/folder
Delete	delete the current favorite/folder
Options > General	change the way Web pages are downloaded and displayed (You can omit displaying images, turn off sound, request a warning before moving from secure Web pages to insecure Web pages, allow cookies, or change the language.)
Options > Connections	change your network connection
Options > Memory	clear your temporary Internet files, cookies, and Web history

Using Media Player



Using **Windows Media**® 9.0 or later, you can play media audio and video files and MP3 audio files stored on your phone or memory card.

Find the Feature

Start  > More > More
> Windows Media

Playing a Media File on Your Phone

On the **Local Content** screen:

Press	To
1 	scroll to a desired file
2 Play 	play the file
3  left	skip to the beginning of the current file
4  left twice	skip to the beginning of the previous file
5  right	skip to the next file
6  up/down	increase/decrease the volume

Tip: To access the **Local Content** screen, press **Playlist**  .

The related menu options are described below.

Option	Description
Local Content	display the Local Content playlist
Favorites	display the Favorites playlist
Open URL	play a streaming media file on a network
Properties	display information about the selected file
Settings	adjust the volume and specify various playback options (For example, to play files randomly, check Shuffle ; to play files repeatedly, check Repeat ; and to stop playback while using another program, check Background play .)
Delete	delete the selected file



Playing a Streaming Media File on a Network



On the **Local Content** screen:

Press	To
1 Menu 	open the options menu
2 	scroll to Open URL
3 Action 	select Open URL
4 keypad keys	edit the URL



Press	To
5 Play 	connect and play the streaming media file

The following table lists the menu options that are available when you play a file.

Option	Description
Play/Pause	play/pause the current file
Next	skip to the next file on the current playlist
Previous	skip to the beginning of the current file (If no file is playing, this option skips to the previous file on the current playlist.)
Full Screen	play the current file in full screen
Open URL	play a streaming media file on a network
Properties	display information about the current file that is playing
Settings	adjust the volume and specify various playback options
Add to Favorites	add the current file to the Favorites playlist

Managing Digital Rights Management (DRM) Content

Media Manager allows you to maintain digital rights management (DRM) associated with your media content including images, video clips, audio files and ring tones.

Some digital media content from the Internet, CD tracks, and videos have associated licenses that protect them from being unlawfully distributed or shared. Licenses are managed and created using DRM, which is the technology for securing content and managing the rights for its access.

To ensure that the license is copied with the content, use the Portable Device (or Copy to CD or Device) feature in Windows Media Player 9.0 or later on your desktop computer to copy content to your phone. For more information about copying content to your phone, see the Windows Media Player Help on your desktop computer.

Find the Feature

Start  > More > Media Manager

To manage DRM content for a specific media type, follow the steps below:

Press	To
1 	scroll to a desired media type
2 Action ()	select the media type





Press	To
3 	scroll to a desired DRM-protected content
	Note: You are presented with each file is marked with an icon that gives you a quick overview on the rights status associated with each media object. There are 6 different status markers: • Not a DRM object • Valid rights • Expired/renewable rights • Pending rights • Rights that are about to expire • Expired/non-renewable rights
4 Menu 	open the options menu

Once you find the content you are searching for, you are prompted with a context-sensitive menu that provides you with multiple management options.

Option	Description
Send As...	transfer a file to another remote device using either the Bluetooth wireless protocol or IR



Option	Description
Renew Rights	launch Internet Explorer and direct you to a URL address where you can renew the rights for a media object
Show Rights	provide more specific details concerning the rights for a media object
Delete File	delete a DRM-protected file and all the licenses associated with it Note: If a non-DRM file is selected for deletion, only the file itself will be removed.
Set as Ring Tone	specify the selected media file as the default ring tone for your phone Note: This option is available only for Ringtones .

Playing Games

Caution: A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. If you experience any of the following symptoms while playing a video game—dizziness, altered vision, eye or muscle twitches, loss of awareness, disorientation, any involuntary movement, or convulsions—**IMMEDIATELY** discontinue use and consult your physician before resuming play.

Playing Jawbreaker



The object of **Jawbreaker** is to have balls (more than 1) in the same color deleted from the screen. The fewer balls you leave behind, the more scores you get.

Find the Feature

Start  > More > More > More
> Games > Jawbreaker

Press	To
1 	highlight the ball which is the same color as the ball(s) around
2 Action () twice	delete the balls from the screen

Tip: To start a new game, press **New**  .

The related menu options are described below.

Option	Description
Undo	undo the balls you just deleted
New Game	start a new game
Statistics	select a style to display the related records (Press Reset  to clear the records of the selected style.)
Options	turn on/off the play sounds and guest mode, and select a style and color
About	open the About dialog

Playing Solitaire

The object of **Solitaire** is to use all the cards in the deck to build up 4 suit stacks in ascending order, beginning with the aces. You win the game when all cards are on the suit stacks.



Find the Feature

Start  > More > More > More
> Games > Solitaire

Action

- 1 Press the number or character above the card stack displaying the card you want to move, and press the number or character above the card stack to which you want to move the card.

- 2 Move any aces on the 7 stacks to the 4 card spaces at the top of the screen, and then make any other available plays.

Tip: Press  up to move a card to one of the 4 card stacks on the upper right corner of the screen if it belongs there. For example, if you have an ace displayed in one of the 7 stacks, press the number above the ace, and then press  up. The card that is faced up on the deck is always available for play.

- 3 When you have made all available plays, press **Draw**  to turn over cards.

Managing Java

You can play the preset or downloaded Java games and configure Java settings on your phone.



Find the Feature

Start  **> More > Game Room**

Playing a Java Game

	Press	To
1		scroll to a desired Java game
2	Action 	play the Java game

Downloading a Java Game



You can download Java games from the Internet you are surfing on.

	Press	To
1	Download 	open the Favorites list
2		scroll to a desired favorite
	or	or
	Menu  > Address Bar	enter a Web address
3	Go 	connect to the Web page
4		scroll to a desired Java game



Press	To
5 Install 	install the Java game on your phone
	Tip: Press Action (○) to run the Java game. To terminate the running Java game, press End  .

The menu options for a Java game are described below.

Option	Description
Remove	delete a Java game except the preset ones
Rename	rename a Java game
Update	update a Java game using the stored information, such as the URL
Options	select required settings (by highlighting a feature > pressing Action (○) > scrolling to a desired option > pressing Action (○)) for a Mobile Information Device application (MIDlet) of a Java game and press Save  when done (Changes to permission settings for a MIDlet in a multi-MIDlet suite will affect the settings for the whole suite.)
Info	display the size of a Java game, version number, vendor, domain and URL from which it was downloaded



Option	Description
Java Info	display the following: • Connected Limited Device Configuration (CLDC) version number • Mobile Information Device Profile (MIDP) version number • Heapsize • SD Card free space • Phone storage free space • JSRs Note: The heapsize does not reflect the memory installed, but the actual Jbed FastDAC heapsize setting.
Java Settings	sort Java games and turn the backlight on or off
Exit	exit from Game Room

Troubleshooting

Check these questions first if your phone does not seem to work properly. If you need additional help, contact the Motorola Customer Call Center at 1-800-331-6456 (USA) or 1-800-461-4575 (Canada).

Question	Answer
Cannot turn on the phone?	• Is the battery empty? • Is the battery properly installed? • Are the contacts on battery and phone clean? If the contacts appear to be soiled, contact your dealer to clean them.
Your voice cannot be heard.	Have you already turned on the in-call Mute function? Turn it off if necessary.
Cannot use certain call functions?	To use certain advanced call functions (such as Call Forwarding and Call Barring), you may need to subscribe these services to your operator first.
There are noises during a phone call.	Avoid using the phone near a microwave oven, speaker or TV. Their interference has adverse effect to call quality.





Question	Answer
Unable to make/receive calls?	• Is the reception of network signal in good condition? Move to an open space, or a place closer to window. • Is network setup properly? If necessary, try to select your network manually. • Have you already activated the Fixed Dialing, Call Forwarding, and Call Barring functions? If yes, deactivate them temporarily. • Are you using your phone with other SIM cards when the Enable SIM Lock function has been activated? Deactivate the function if necessary. • Check to make sure Flight mode is off.
Cannot connect to the Internet?	• Have you subscribed the Internet (WAP) service to your operator? • Did you enter correct setting parameters (such as APN and IP addresses) in WAP profile setup?



Question	Answer
The battery cannot be charged.	• Is the battery charger correctly plugged into the battery charger socket on the phone? • Is the power cord of the charger damaged? • Is the battery very old? Replace with a new battery and try again. • If the battery is “deeply discharged” and you plug in a charger, the phone will not display that it is charging. After charging for approximately 15 minutes, disconnect then reconnect the charger to the phone. It will then properly display that it is charging.
Cannot synchronize device with PC?	Check the following Web site for several possible solutions: http://support.microsoft.com
USB won't connect while using ActiveSync®.	Upgrade to the latest version of ActiveSync. Use version 3.7.1 or higher from Microsoft® downloads, available at http://www.microsoft.com/downloads .



Question	Answer
The standby and talk time is apparently shorter than ever.	• Your phone consumes more power when signal reception is poor. Try to move to a better location when you use the phone. • Are you using a new battery? It takes several charge and discharge cycles for the battery to reach its original capacity. • Is the battery very old? Replace it with a new one. • Are you using the phone in very high or low temperature environment? The efficiency of a battery can be effected by ambient temperature.
Phone appears to operate slowly.	Check the free memory. Go to Start  > Settings > About. It is recommended to have at least 1.5 to 2 MB of free memory storage on your phone. Remember to delete or transfer (to mini SD or computer) old messages and pictures.

Question	Answer
Home Screen Layout error message appears.	If the Home screen appears white or another color, the Home screen layout may not be selected. An error message Cannot find Home Screen Layout may also appear. To correct this, you need to reselect the Home screen. Go to Start  > Settings > Home Screen and select a Home screen layout.
I'm having issues with my email or I can't connect to the GPRS/WAP server.	• Check your GPRS data connection settings (see "Creating GPRS Connection" on page 109). • Try browsing the Web or your provider's Web site. • Check your email setting: user name, password, server name, and server type (see "Configuring an Email Account" on page 65). • Try connecting to your email server.



Specific Absorption Rate Data

The model MPx220 GSM 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 0.75 W/kg, and when worn on the body, as

described in this user guide, is 0.88 W/kg. The SAR value for this product in its data transmission mode (body-worn use) is 0.56 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.

Microsoft End User License Agreement

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